# CDP-C5M

# SERVICE MANUAL

**Note:** File this issue in place of the preliminary one.

*US Model*
*AEP Model*
*UK Model*
*E Model*

SONY
5DISC
DIGITAL

## SPECIFICATIONS

| | |
|---|---|
| System | Compact disc digital audio system |
| Laser output | Max. 0.4mW*<br>• This output is the value measured at a distance of about 1.6 mm from the objective lens surface on the Optical Pick-up Block. |
| Frequency response | Europe: 2 Hz - 20 kHz ($^{+0.5}_{-1.0}$ dB)<br>Others: 2 Hz - 20 kHz (±0.5 dB) |
| Signal to noise ratio | More than 95 dB |
| Dynamic range | More than 93 dB |
| Harmonic distortion | Less than 0.005% (1 kHz) |
| Channel separation | More than 90 dB (1 kHz) |
| Wow and flutter | Below measurable limit |
| Outputs | LINE OUT (phono jacks)<br>Output level 2 V (at 50 kilohms)<br>Load impedance over 10 kilohms<br>HEADPHONES (stereo phone jack)<br>Output level 0 - 28 mW (variable) (at 32 ohms)<br>Output impedance 220 ohms |

**General**

| | |
|---|---|
| Power requirements | US model: 120 V AC, 60 Hz<br>AEP model: 220 V AC (240 V AC, adjustable by authorized Sony personnel), 50/60 Hz<br>UK model: 240 V AC 50 Hz<br>E model: 120/220/240 V AC, switchable, 50/60 Hz |
| Power consumption | 10 W |
| AC outlet (USA model only) | 100 W max. unswitched |
| Dimensions | Approx. 355 × 106 × 415 mm (w/h/d)<br>(14 × 4¼ × 16⅜ inches) |
| Weight | Approx. 7 kg (15 lbs 7 oz), net |

**REMOTE COMMANDER RM-D5**

| | |
|---|---|
| Remote control system | Infrared control |
| Power requirements | 3 V DC with two batteries R6 (size AA) |
| Dimensions | 43 × 20 × 175 mm (w/h/d)<br>(1¾ × ⅞ × 6⅞ inches) |
| Weight | 145 g (5 oz)<br>including batteries |

**Note**

This appliance conforms with EEC Directives 76/889 and 82/499 regarding interference suppression.

MICROFILM

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

# COMPACT DISC PLAYER

SONY®

AUD

## FEATURES

**Compact disc player with 5 disc trays**
Plays up to 5 discs continuously with its disc compartment having 5 disc trays (MULTI play).

**Direct access to the desired disc**
Any disc in the compartment can be played with the DISC SELECT button any time you want (MULTI play).

**Various functions**

- PROGRAM play function for playing up to 32 selections on any disc in a desired order
- SHUFFLE play function for playing the selections in a random order
- Repeat function for SINGLE, MULTI, PROGRAM and SHUFFLE play

**Memory back up**
The programmed playback order is retained for approximately 3 days with the power turned off or with the disc compartment being opened. This allows you to confirm the programmed order referring to the disc labels with the compartment open.

### CAUTIONS ABOUT DISCTABLE

- *Do not push the disc-table in or pull it out forcibly, since the disc-table does not work without the power switched on.
- *Be careful not to disturb the disc-table in ejecting motion.
- *If something like a wire or a finger is caught by the disc-table, depress the OPEN/CLOSE button as soon as possible, so that the disc-table will move reversely.

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## SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

### LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

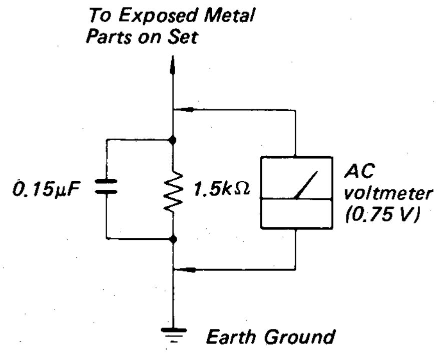
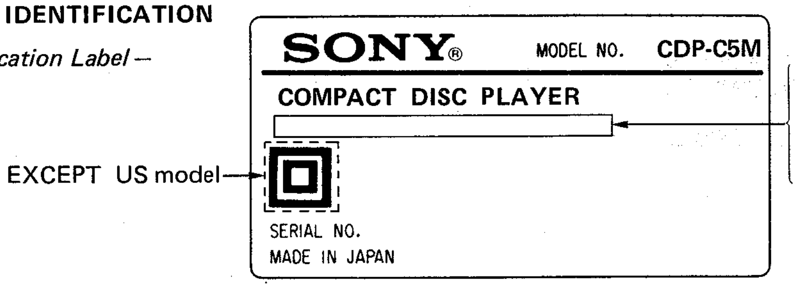


*Fig. A. Using an AC voltmeter to check AC leakage.*

## MODEL IDENTIFICATION

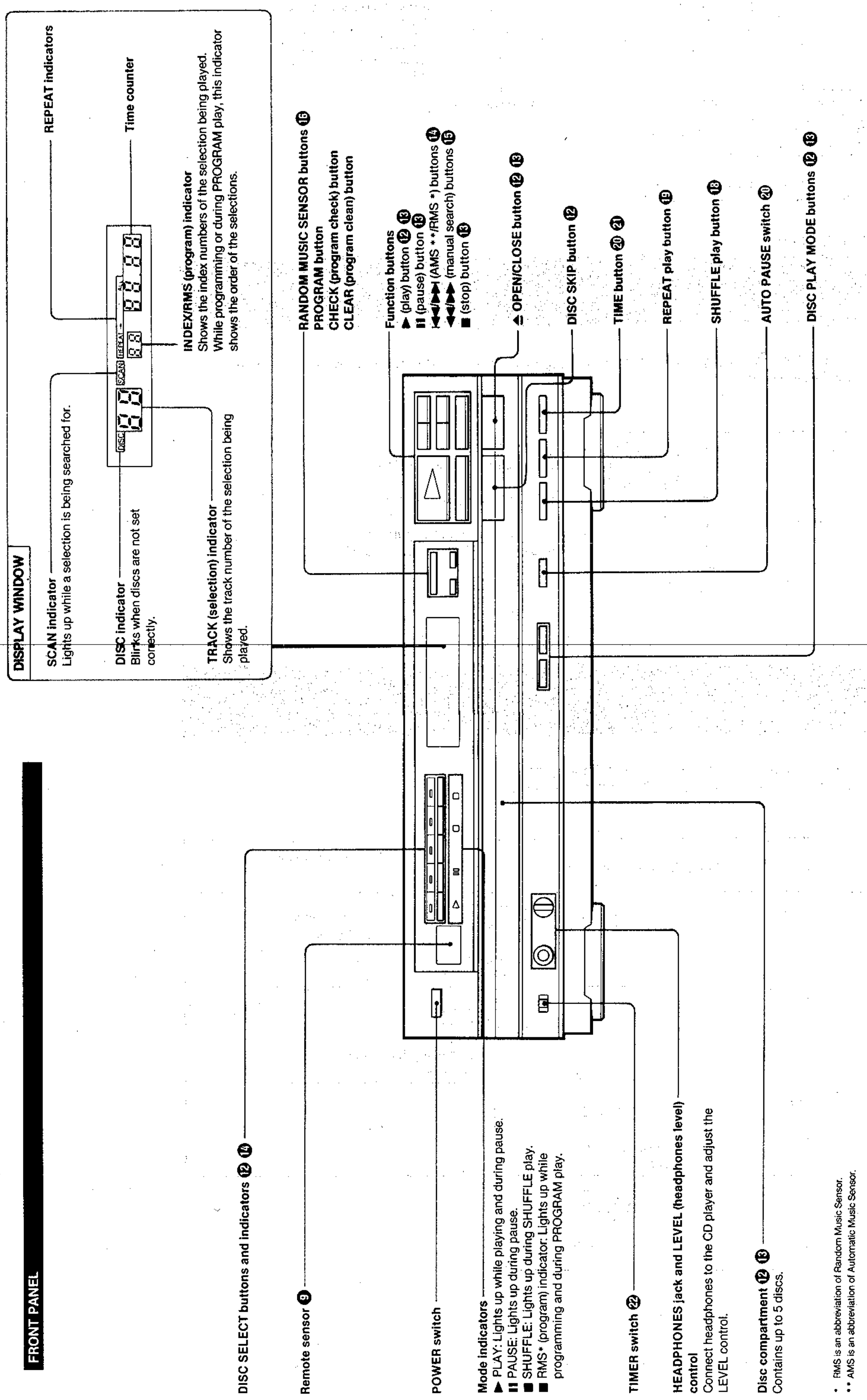
*– Specification Label –*


SONY®
MODEL NO. CDP-C5M
COMPACT DISC PLAYER
EXCEPT US model
SERIAL NO.
MADE IN JAPAN

US model: AC 120 V 60 Hz 10 W
AEP model: AC 220 V ~ 50/60 Hz 10 W
UK model: AC 240 V ~ 50/60 Hz 10 W
E model: AC 120/220/240 V ~ 50/60 Hz 10 W

# SECTION 1 OUTLINE

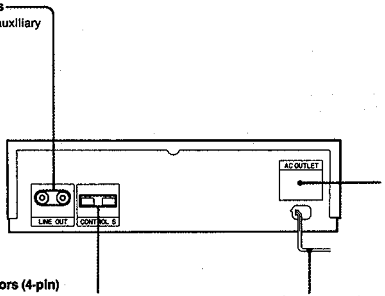
## 1-1. LOCATION AND FUNCTION OF CONTROLS


DISPLAY WINDOW
SCAN indicator
Lights up while a selection is being searched for.
DISC indicator
Blinks when discs are not set correctly.
TRACK (selection) indicator
Shows the track number of the selection being played.
REPEAT indicators
Time counter
INDEX/RMS (program) indicator
Shows the index numbers of the selection being played. While programming or during PROGRAM play, this indicator shows the order of the selections.
DISC
SCAN
REPEAT
ALL
RANDOM MUSIC SENSOR buttons ⑯
PROGRAM button
CHECK (program check) button
CLEAR (program clean) button
Function buttons
▶ (play) button ⑫ ⑬
❚❚ (pause) button ⑬
⏮/⏭ (AMS **/RMS *) buttons ⑭
◀◀/▶▶ (manual search) buttons ⑮
■ (stop) button ⑬
⏏ OPEN/CLOSE button ⑫ ⑬
DISC SKIP button ⑫
TIME button ⑳ ㉑
REPEAT play button ⑲
SHUFFLE play button ⑱
AUTO PAUSE switch ⑳
DISC PLAY MODE buttons ⑫ ⑬
FRONT PANEL
DISC SELECT buttons and indicators ⑫ ⑭
Remote sensor ⑨
POWER switch
Mode indicators
▶ PLAY: Lights up while playing and during pause.
❚❚ PAUSE: Lights up during pause.
■ SHUFFLE: Lights up during SHUFFLE play.
■ RMS* (program) indicator: Lights up while programming and during PROGRAM play.
TIMER switch ㉒
HEADPHONES jack and LEVEL (headphones level) control
Connect headphones to the CD player and adjust the LEVEL control.
Disc compartment ⑫ ⑬
Contains up to 5 discs.

* RMS is an abbreviation of Random Music Sensor.
** AMS is an abbreviation of Automatic Music Sensor.

## CONNECTIONS

### DESCRIPTION ON REAR PANEL



**LINE OUT (audio output) jacks**
Connect these jacks to the CD or auxiliary input jacks of an amplifier.

**AC outlet** (unswitched)
(supplied only with the U.S.A. model)
Used to power other audio components whose power consumption is less than 100 watts.

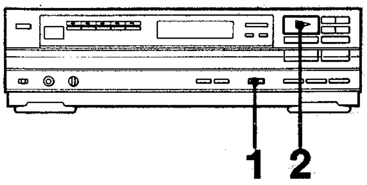
**CONTROL S IN/OUT connectors (4-pin)**
When the CONTROL S IN connector is connected to the CONTROL S OUT connector of the optional audio equipment with CONTROL S connectors, the remote sensor of the connected equipment can be used to receive the commands emitted from the remote commander of both the CDP-C5M and the connected equipment.
The CONTROL S OUT connector is to be connected to the CONTROL S IN connector of another optional audio equipment.

**AC power cord**

## 1-2. AUTO PAUSE

## AUTO PAUSE

Using the auto pause function, the CD player enters the pause mode automatically each time a selection has been played. This function is useful for recording.



**1 Depress AUTO PAUSE (⌂ ON).**

**2 Press ▶ to start play.**

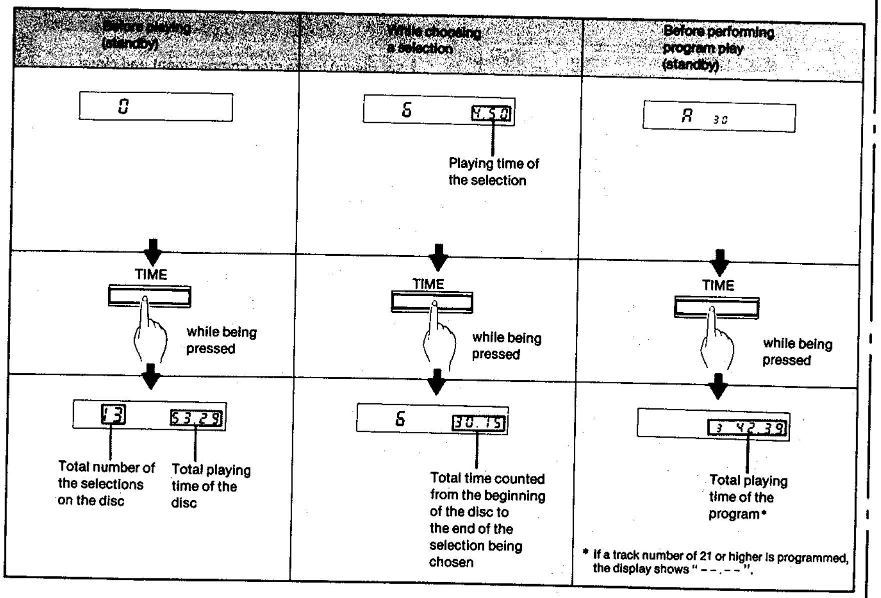
**To cancel auto pause function**
Press AUTO PAUSE again (⌂ OFF).

## INFORMATION DISPLAY

During play, the display shows one of the following types of information.
The display modes can be switched each time the TIME button is pressed.

| | | Normal play (MULTI, SINGLE) | PROGRAM, SHUFFLE play |
|---|---|---|---|
| During play | 1 | Track No. 3 0 2.14<br>Elapsed playing time of the selection<br>Index No. or program No. | |
| TIME | 2 | 3 - 3.25<br>Remaining time of the selection | |
| TIME | 3 | 10.38<br>Elapsed time of the disc | **Returns to 1.** |
| TIME | 4 | -42.51<br>Remaining time of the disc | |
| TIME | | **Returns to 1.** | |

Use the TIME button while the player is not playing the disc to get the following information.


Before playing (standby)
While choosing a selection
Before performing program play (standby)
0
6 4.50
Playing time of the selection
A 30
TIME
while being pressed
TIME
while being pressed
TIME
while being pressed
13 53.29
Total number of the selections on the disc
Total playing time of the disc
6 30.15
Total time counted from the beginning of the disc to the end of the selection being chosen
3 42.39
Total playing time of the program*

* If a track number of 21 or higher is programmed, the display shows " – – . – – ".

**To get information on another disc in MULTI play mode**
Press the DISC SELECT button corresponding to the disc to be checked so that the DISC SELECT indicator of the disc lights in green. Use then the TIME button.

**Notes**

- Information on the time can be displayed only when the disc compartment is closed.
- If you have programmed selections with the disc compartment open, information on the time is displayed only after the compartment is closed and the player has read the contents of the disc(s).
- In the MULTI play mode, the disc compartment may rotate when the TIME button is activated so that the player can read the disc contents.

## NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

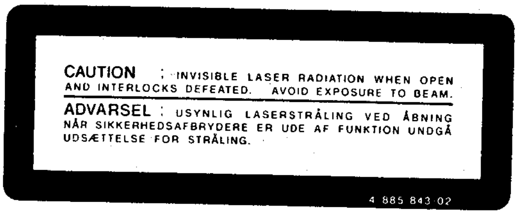
**ADVARSEL!!**

**Under service må øjnene ikke komme nær objektiv-linsen på den optiske pick-up enhed. I tilfælde af at det er nødvendigt at kontrollere udsendelsen af laserlys, skal det ske i en afstand af mere end 30 cm fra den optiske pick-up.**

## LASER ADVARSEL MÆRKNING

Følgende mærkning findes indvendig i apparatet:

1. Advarsel Mærkning



CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.

ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGÅ UDSÆTTELSE FOR STRÅLING.

4 885 843 02

1. Data for Laser Diode
   - Materiale: Ga-As
   - Bølgelængde: 780 nm
   - Udstråling: Kontinuerlig
   - Laser Output: max. 0.4 mW*

     * målt i 1.6 mm afstand fra overfladen af objektiv-linsen på den optiske pick-up enhsd.
   - Klassifikation: Svarende til klasse IIIb
2. Adskil aldrig den optiske pick-up enhed under service, og juster ikke APC kredsløbet (Automatic Power Control). Hvis APC kredsløbet (incl. laser-dioden) bryder ned, skal hele den optiske pick-up enhed (incl. APC printkortet) udskiftes.

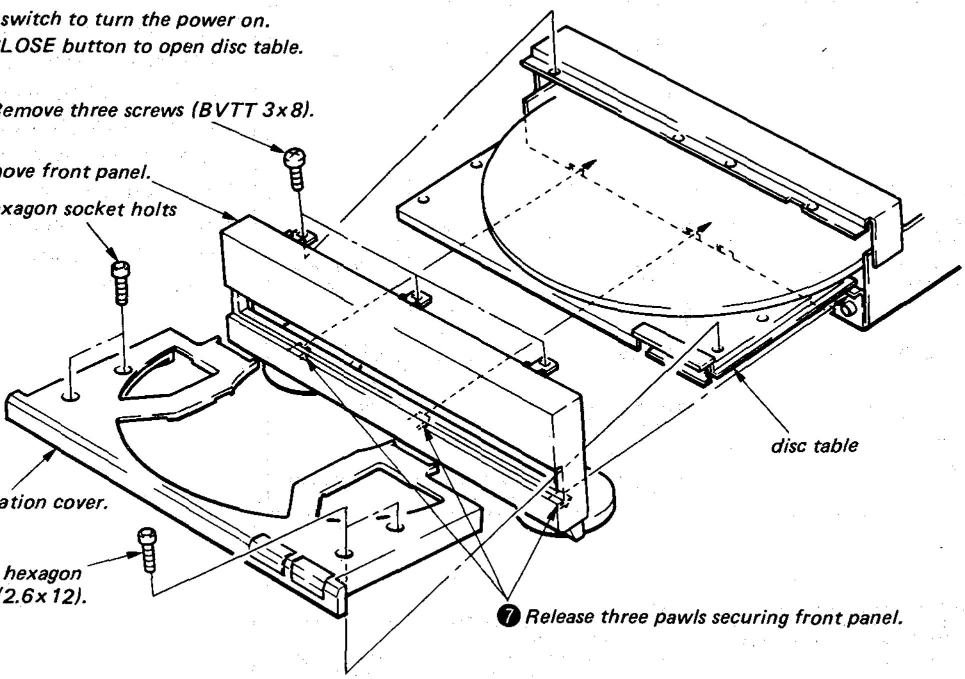
# SECTION 2
# DISASSEMBLY

**Note:** Follow the disassembly procedure in the numerical order given.

## FRONT PANEL

### A. When disc table opens automatically by pressing OPEN/CLOSE button;

*① Remove top cover.*
*② Press POWER switch to turn the power on.*
*③ Press OPEN/CLOSE button to open disc table.*



*⑥ Remove three screws (BVTT 3x8).*

*⑧ Remove front panel.*

*④ Remove four hexagon socket holts (2.6x12).*

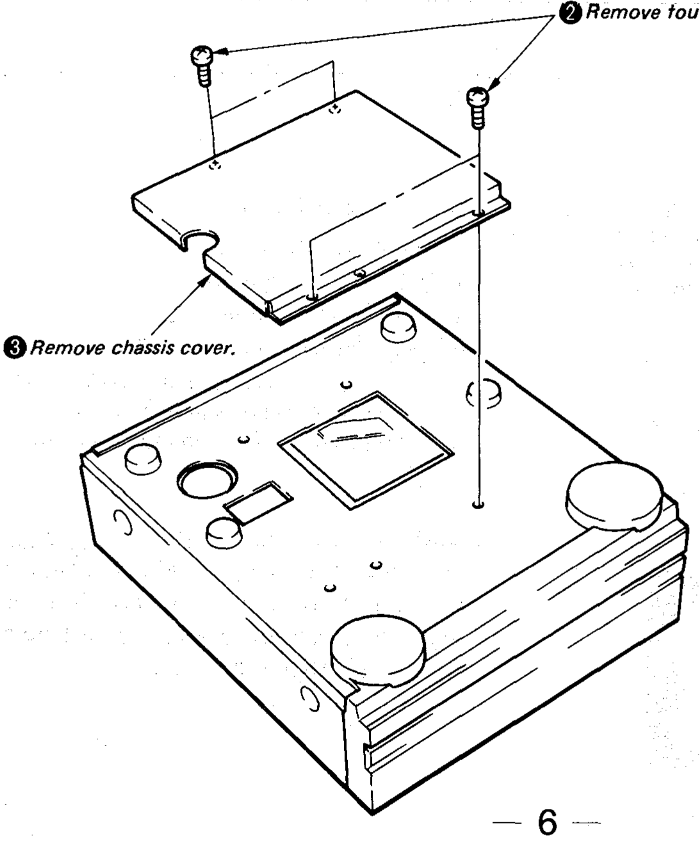
*⑤ Remove station cover.*

*④ Remove four hexagon socket holts (2.6x12).*

*⑦ Release three pawls securing front panel.*

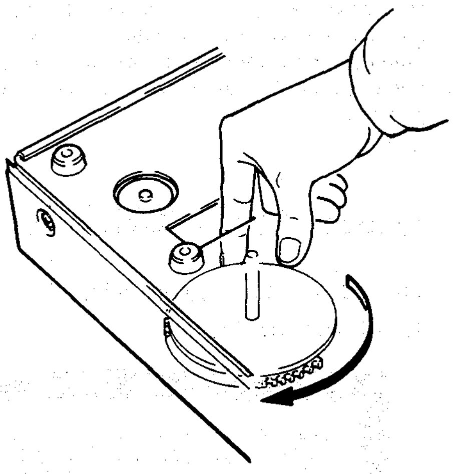
### B. When disc table dols not open even if OPEN/CLOSE button is pressed;

*① Remove top cover.*
*⑤ Pull disc table by hand and open.*
*⑥ Perform steps A-4. to A-8.*



*② Remove four screws (BVTT 3x5).*

*③ Remove chassis cover.*



*④ Turn cam gear until disc table opens slightly.*

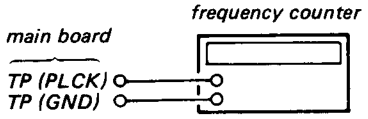
# SECTION 3
# ADJUSTMENTS

## SETTING (FOR ADJUSTMENT)

1. Turn RV506 and RV507 clockwise fully.
2. Switch on the power and open the disc table pressing OPEN/CLOSE button.
3. Switch off the power.
4. Put the test disc YEDS-18 (3-702-101-01) into the disc position.
5. Ground the test point CHECK MODE 1 on MAIN BOARD.
6. Switch on the power again, and ready to adjust.

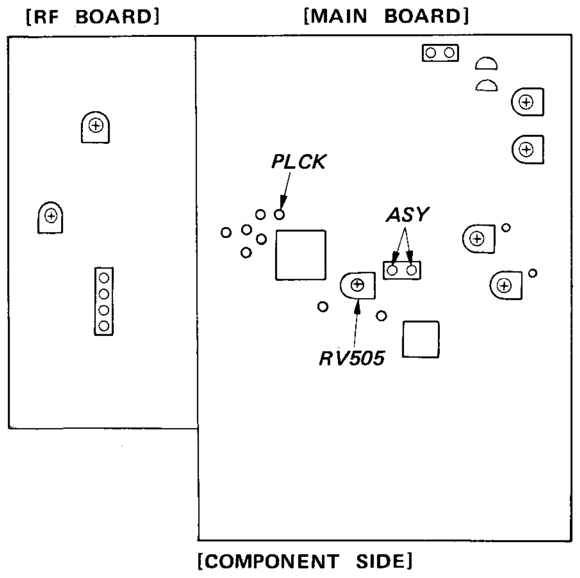
### RF PLL Frequency Adjustment/Lock Frequency Check

**Procedure:**


frequency counter
main board
TP (PLCK)
TP (GND)

1. Ground test point TP (ASY).
2. Connect the frequency counter to the test points TP (PLCK) and TP (GND).
3. Turn POWER switch on.
4. Adjustment RV505 so that the reading on the frequency counter is 4.3218 MHz ±30 kHz. (RF PLL frequency adjustment)
5. Remove the grounding wire from TP (ASY).
6. Put the disc (YEDS-18) in and press ▷ button.
7. Confirm that the reading on the frequency counter is locked at 4.3218 MHz.

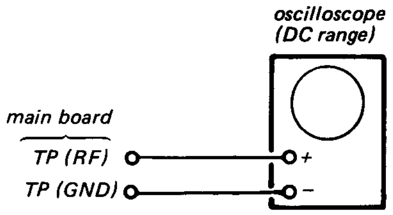
**Adjustment Location:** main board


[RF BOARD]
[MAIN BOARD]
PLCK
ASY
RV505
[COMPONENT SIDE]

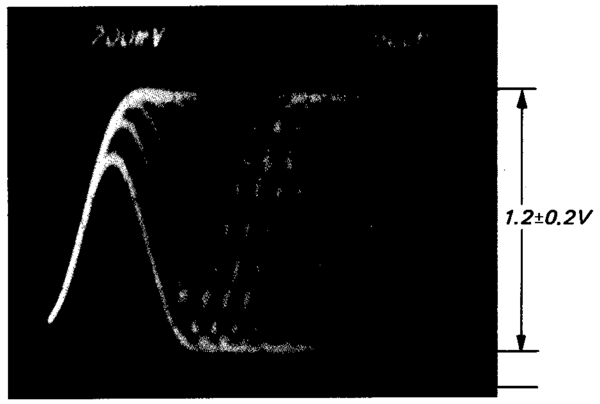
### Focus Bias Adjustment

This adjustment should be made after replacing the Optical Pick-up Block.

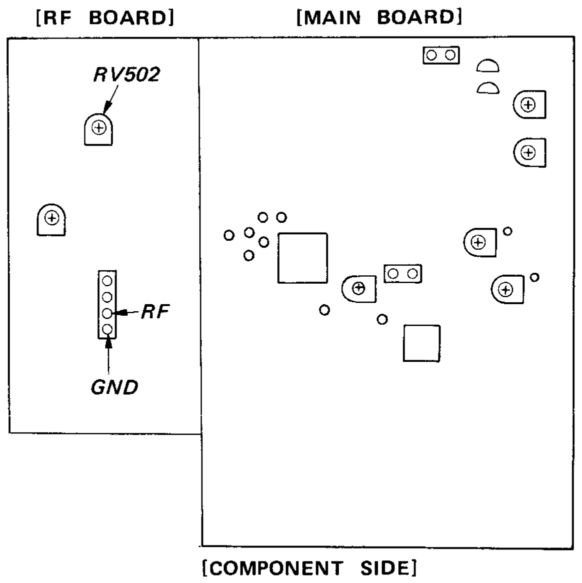
**Procedure:**


oscilloscope
(DC range)
main board
TP (RF)
TP (GND)
+
−

1. Connect oscilloscope to the test points TP (RF) and TP (GND).
2. Turn POWER switch on.
3. Put the disc (YEDS-1) in and press ▷ button.
4. Adjust RV502 for an optimum waveform eye pattern. Optimum eye pattern means that shape "◇" can be clearly distinguished at the center of the waveform.



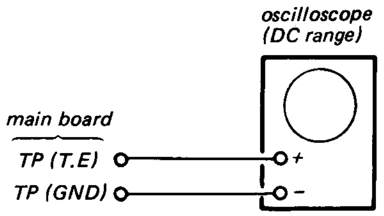
**Adjustment Location:** RF board


[RF BOARD]
[MAIN BOARD]
RV502
RF
GND
[COMPONENT SIDE]

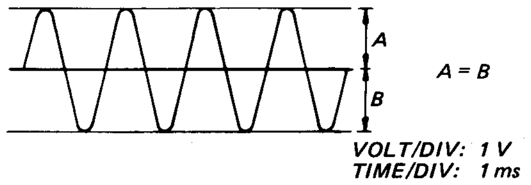
### E-F Balance Adjustment

This adjustment should be made after replacing the Optical Pick-up Block.

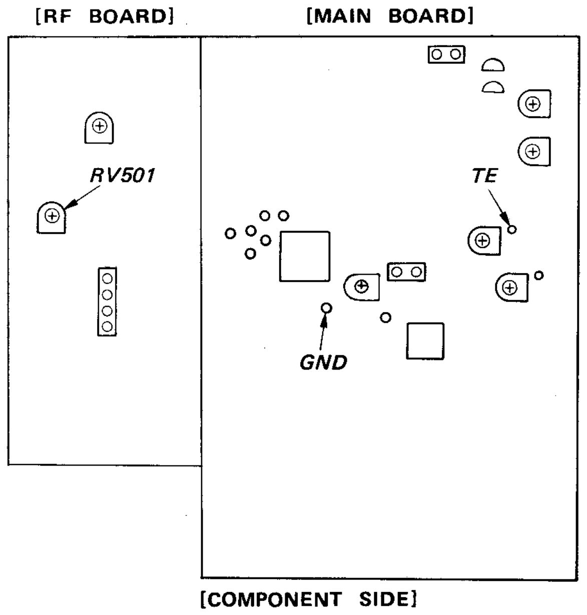
**Procedure:**


oscilloscope
(DC range)
main board
TP (T.E)
TP (GND)
+
−

1. Connect the oscilloscope to the test points TP (T.E) and TP (GND).
2. Ground TP (ASY) to set an adjustment mode.
3. Turn POWER switch on.
4. Put the disc (YEDS-18) in and press ▷ button.
5. Adjust RV501 so that the traverse waveform is symmetrical above and below.
6. After adjustment, cancel the adjustment mode.

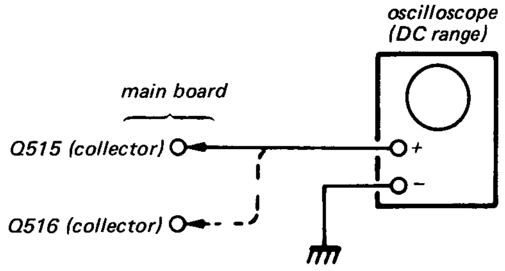


**Adjustment Location:** main board, RF board


[RF BOARD]
[MAIN BOARD]
RV501
TE
GND
[COMPONENT SIDE]

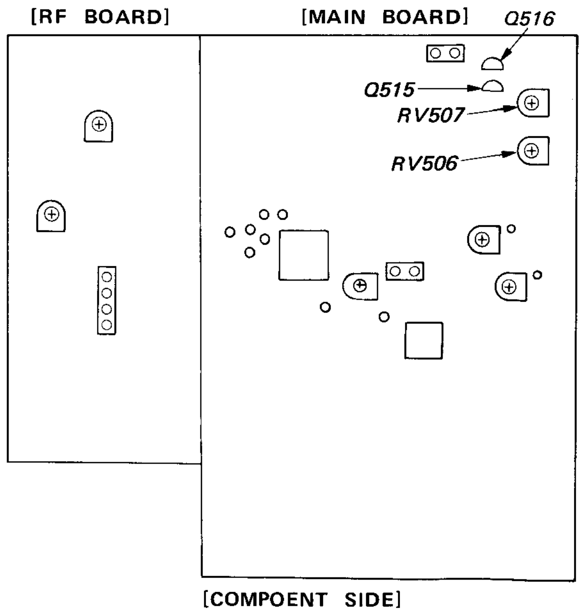
### SENSITIVITY ADJUSTMENT OF DISC SENSOR & DISC COUNT SENSOR

1. Open the disc table.
2. Press SINGLE button of DISC PLAY MODE buttons.
3. Connect the oscilloscope to the collector of Q515.
4. Check if the voltage at the collector of Q515 (disc count sensor amp) is more than 2.5 V, turning the disc table with DISC SKIP BUTTON.
5. If the secification above is not met, adjust RV506 so that the voltage will satisfy the specification level.
6. As to Q516, take the same procedures as Q515. To adjust the voltage, turn RV507.


oscilloscope
(DC range)
main board
Q515 (collector)
Q516 (collector)
+
−

●SPECIFICATION
2.5 V more than

**Adjustment Location:** main board


[RF BOARD]
[MAIN BOARD]
Q516
Q515
RV507
RV506
[COMPOENT SIDE]

**REFERENCE**

### Focus/Tracking Gain Adjustment

A frequency response analyzer is necessary in order to perform this adjustment exactly.

However, this gain has a margine, so even if it is slightly off, there is no problem. Therefore, this adjustment is not recomended generally to be performed.

Focus/tracking gains determine the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.

However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

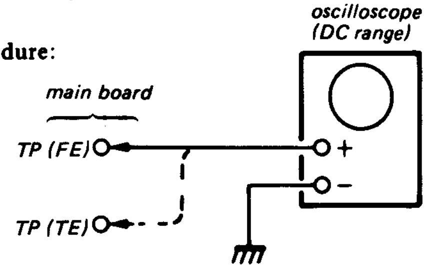
| Gain / Symptoms | Focus | Tracking |
|---|---|---|
| • The time until music starts becomes longer for STOP →▷PLAY or automatic selection (⏮, ⏭buttons pressed. (Normally takes about 2 seconds.) | low | low or high |
| • Music does not start and disc continues to rotate for STOP→▷PLAY or automatic selection (⏮, ⏭ buttons pressed.) | – | low |
| • Disc table opens shortly after STOP→▷PLAY. | low or high | – |
| • Sound is interrupted during PLAY. Or time counter display stops progressing. | – | low |
| • More poise during 2-axis device operation. | high | high |

The following is a simple adjustment method.

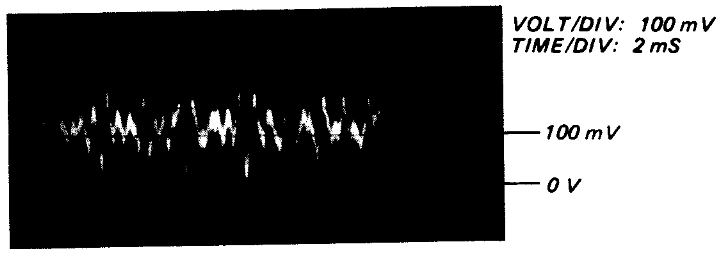
– Simple Adjustment –

**Note:** Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

**Procedure:**

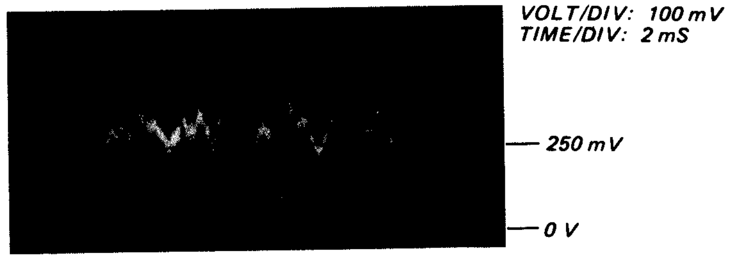

oscilloscope
(DC range)
main board
TP (FE)
TP (TE)
+
−

1. Keep the set flat.
   If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2 axis device.
2. Insert the disc (YEDS-18) and press ▷ PLAY button.
3. Connect the oscilloscope to TP (FE) and TP (GND).
4. Adjustment RV503 so that the waveform is as shown in the picture below. (focus gain adjustment)

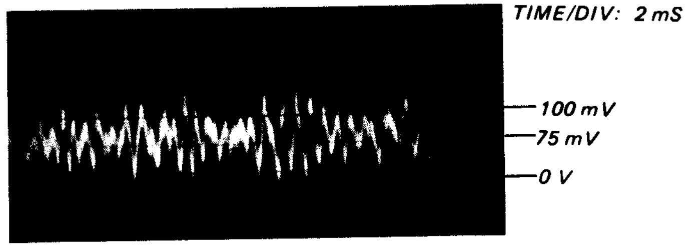


- Incorrent Examples (DC level is quite different from the adjusted waveform) (below)

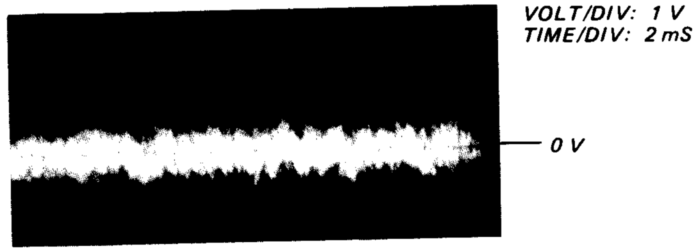
*low focus gain*



*high focus gain*

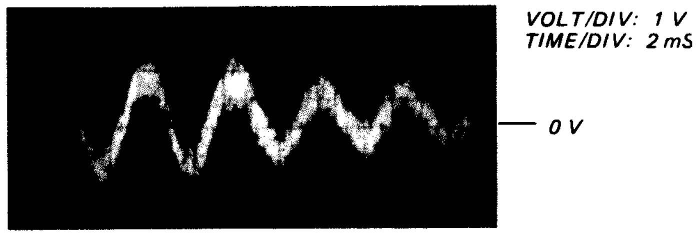


5. Connect the oscilloscope to TP (TE).
6. Adjust RV504 so that the waveform is as shown in the picture below. (tracking again adjustment)

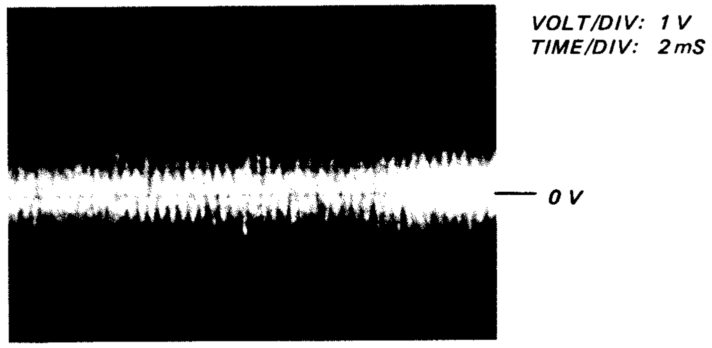


- Incorrect Examples (fundamental wave appears)

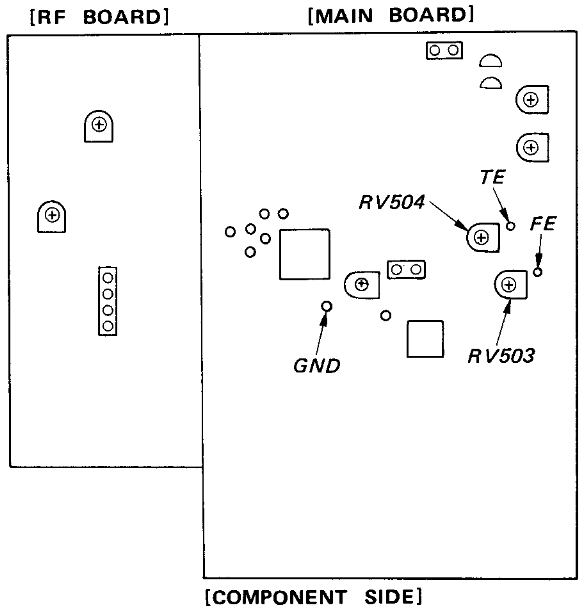
*low tracking gain*



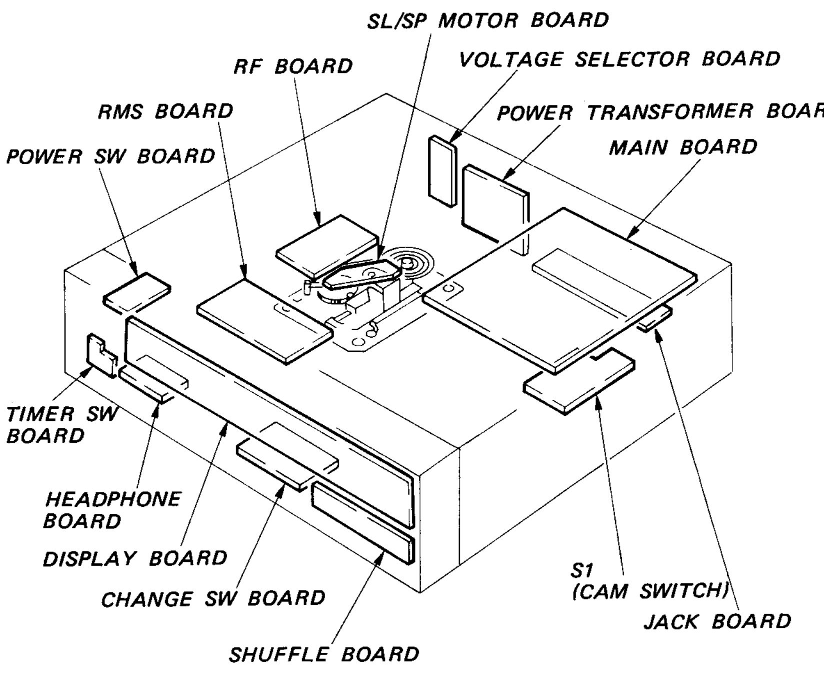
*high tracking gain*
*(higher frequency of the fundamental wave than above)*

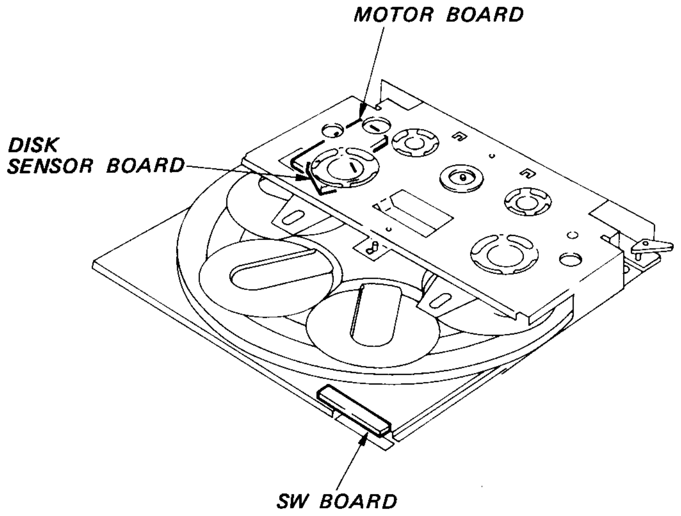


Adjustment Location: main board


[RF BOARD]
[MAIN BOARD]
TE
RV504
FE
GND
RV503
[COMPONENT SIDE]

## SECTION 4
## CIRCUIT BOARDS LOCATION

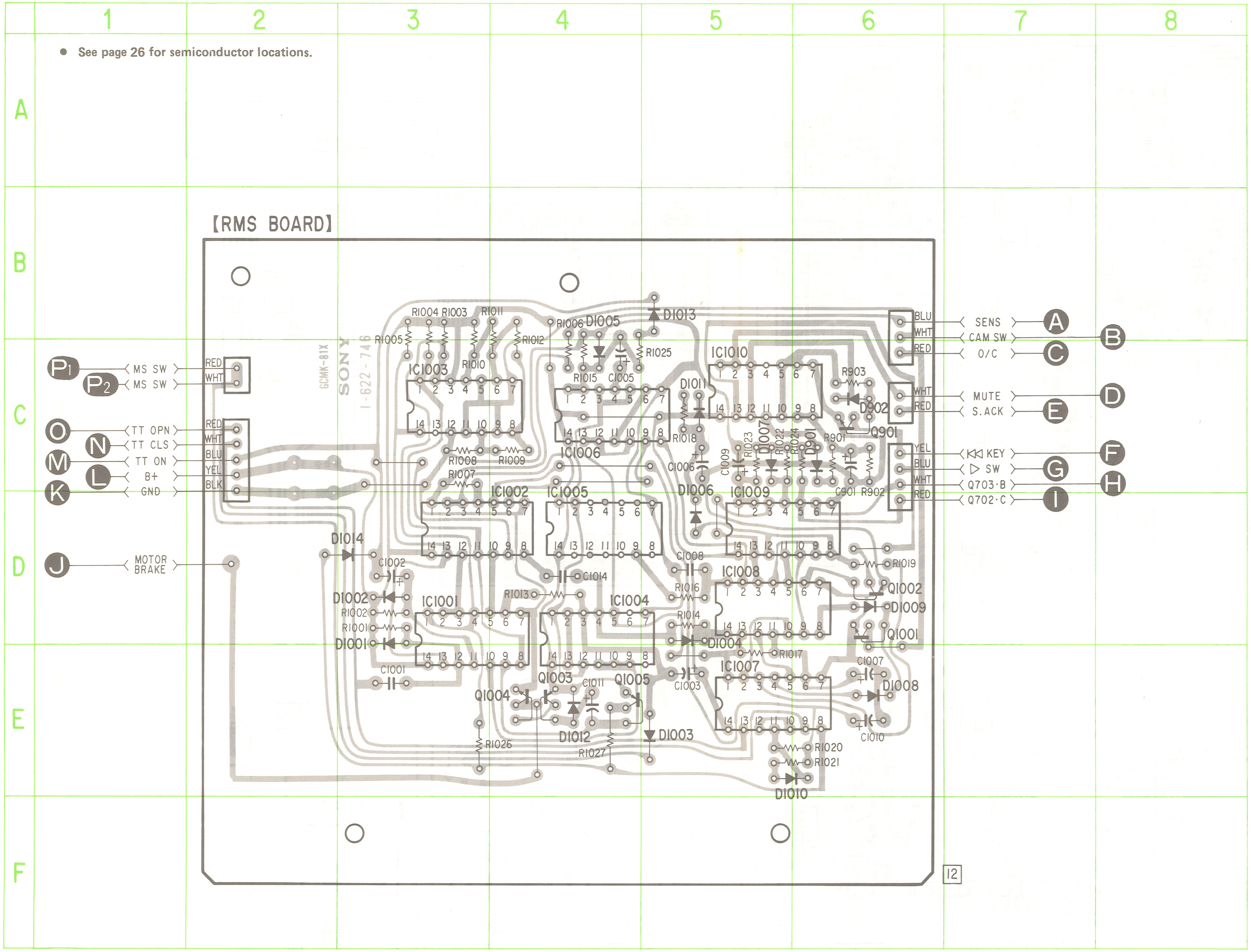

SL/SP MOTOR BOARD
RF BOARD
VOLTAGE SELECTOR BOARD
RMS BOARD
POWER TRANSFORMER BOAR
POWER SW BOARD
MAIN BOARD
TIMER SW BOARD
HEADPHONE BOARD
DISPLAY BOARD
CHANGE SW BOARD
SHUFFLE BOARD
S1 (CAM SWITCH)
JACK BOARD


MOTOR BOARD
DISK SENSOR BOARD
SW BOARD

## SECTION 5 DIAGRAMS

### 5-1. MOUNTING DIAGRAM

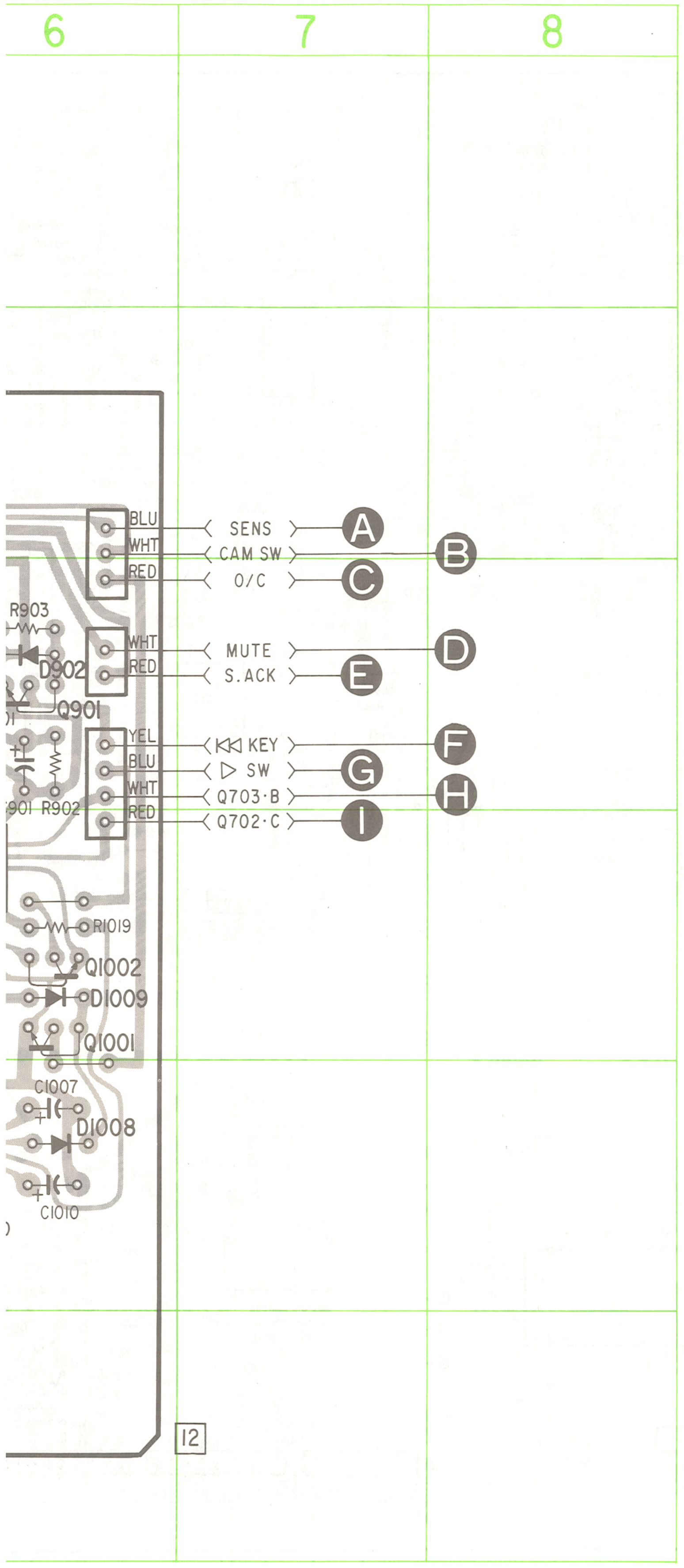
- See page 26 for semiconductor locations.


1
2
3
4
5
6
7
8
A
B
C
D
E
F
【RMS BOARD】
SONY
GCMK-81X
1-622-746
P1 MS SW
P2 MS SW
RED
WHT
O TT OPN
N TT CLS
M TT ON
L B+
K GND
RED
WHT
BLU
YEL
BLK
J MOTOR BRAKE
BLU SENS A
WHT CAM SW B
RED O/C C
WHT MUTE D
RED S.ACK E
YEL ⏮ KEY F
BLU ▷ SW G
WHT Q703·B H
RED Q702·C I
IC1001
IC1002
IC1003
IC1004
IC1005
IC1006
IC1007
IC1008
IC1009
IC1010
Q901
Q1001
Q1002
Q1003
Q1004
Q1005
D901
D902
D1001
D1002
D1003
D1004
D1005
D1006
D1007
D1008
D1009
D1010
D1011
D1012
D1013
D1014
C901
C1001
C1002
C1003
C1005
C1006
C1007
C1008
C1009
C1010
C1011
C1014
R901
R902
R903
R1001
R1002
R1003
R1004
R1005
R1006
R1007
R1008
R1009
R1010
R1011
R1012
R1013
R1014
R1015
R1016
R1017
R1018
R1019
R1020
R1021
R1022
R1023
R1024
R1025
R1026
R1027
12

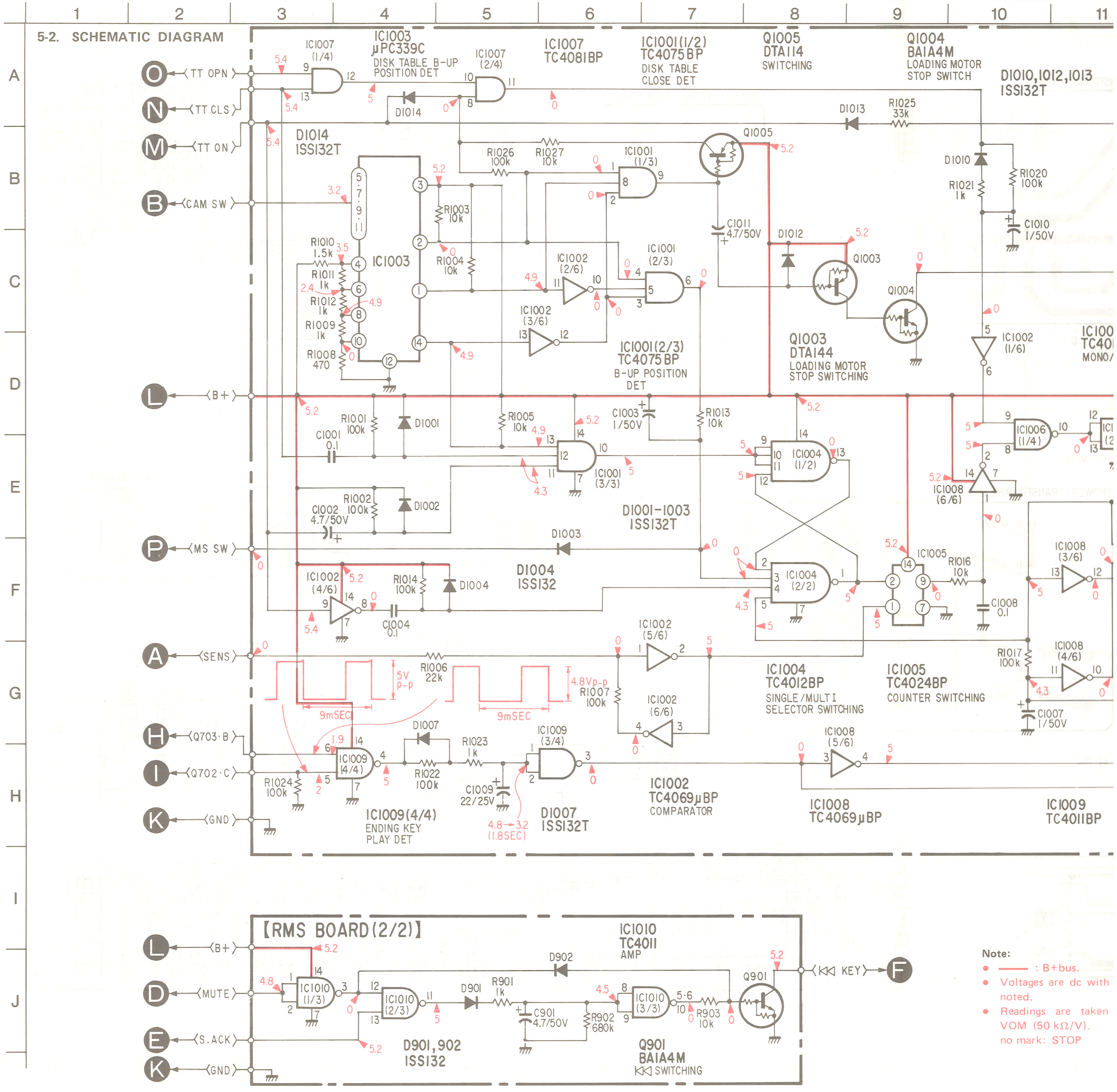
Note:
- ○— : parts extracted from the component side.
- ■ : part mounted on the conductor side.

### 5-2. SCHEMATIC DIA

1
2
A
B
C
D
E
F
G
H
I
J
O
N
M
B
L
P
A
H
I
K
L
D
E
K


6
7
8
BLU
WHT
RED
SENS
CAM SW
O/C
A
B
C
WHT
RED
MUTE
S.ACK
D
E
YEL
BLU
WHT
RED
KEY
SW
Q703·B
Q702·C
F
G
H
I
R903
D902
Q901
R902
R1019
Q1002
D1009
Q1001
C1007
D1008
C1010
12

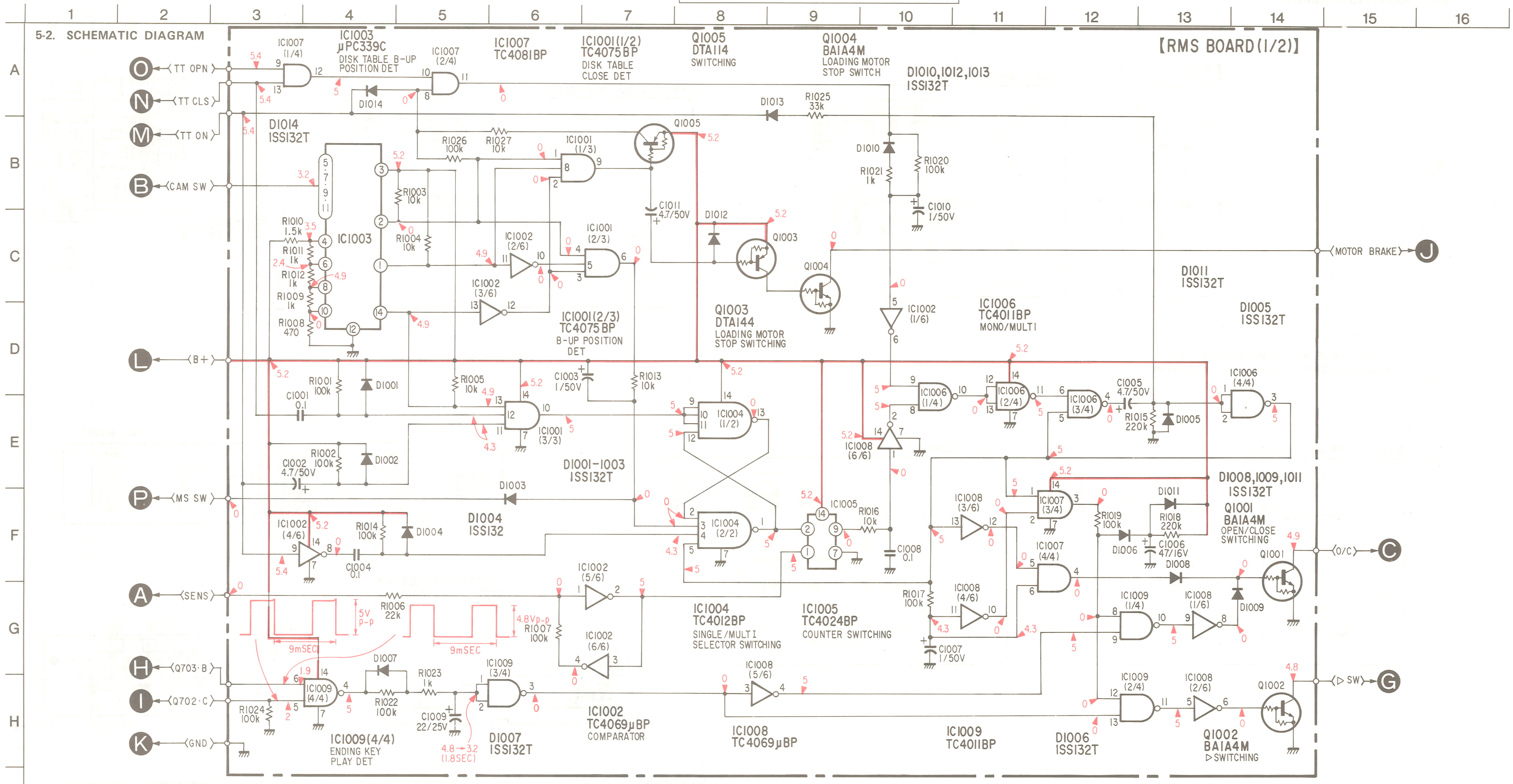
## 5-2. SCHEMATIC DIAGRAM

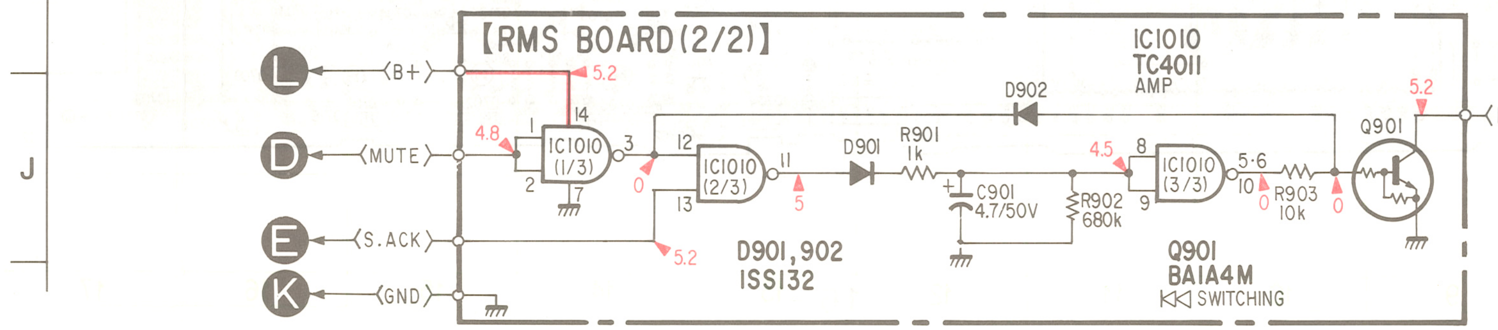

1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I
J
TT OPN
TT CLS
TT ON
CAM SW
B+
MS SW
SENS
Q703·B
Q702·C
GND
IC1007 (1/4)
IC1003 μPC339C
DISK TABLE B-UP POSITION DET
IC1007 (2/4)
IC1007 TC4081BP
IC1001(1/2) TC4075BP
DISK TABLE CLOSE DET
Q1005 DTA114 SWITCHING
Q1004 BA1A4M LOADING MOTOR STOP SWITCH
D1010,1012,1013 ISS132T
D1014 ISS132T
D1013
R1025 33k
R1026 100k
R1027 10k
IC1001 (1/3)
R1003 10k
R1004 10k
IC1002 (2/6)
IC1001 (2/3)
IC1002 (3/6)
IC1001(2/3) TC4075BP
B-UP POSITION DET
C1011 4.7/50V
D1012
Q1003
Q1003 DTA144 LOADING MOTOR STOP SWITCHING
D1010
R1021 1k
R1020 100k
C1010 1/50V
IC1002 (1/6)
R1010 1.5k
R1011 1k
R1012 1k
R1009 1k
R1008 470
R1001 100k
C1001 0.1
D1001
R1005 10k
C1003 1/50V
R1013 10k
IC1001 (3/3)
IC1004 (1/2)
IC1006 (1/4)
IC1008 (6/6)
R1002 100k
C1002 4.7/50V
D1002
D1001–1003 ISS132T
D1003
IC1002 (4/6)
R1014 100k
D1004
D1004 ISS132
C1004 0.1
IC1004 (2/2)
IC1005
R1016 10k
C1008 0.1
IC1008 (3/6)
IC1002 (5/6)
R1006 22k
5V p-p
9mSEC
4.8Vp-p
R1007 100k
IC1002 (6/6)
IC1004 TC4012BP SINGLE/MULTI SELECTOR SWITCHING
IC1005 TC4024BP COUNTER SWITCHING
R1017 100k
IC1008 (4/6)
C1007 1/50V
IC1009 (4/4)
D1007
R1023 1k
IC1009 (3/4)
R1024 100k
R1022 100k
C1009 22/25V
IC1008 (5/6)
IC1002 TC4069μBP COMPARATOR
IC1009(4/4) ENDING KEY PLAY DET
4.8→3.2 (1.8SEC)
D1007 ISS132T
IC1008 TC4069μBP
IC1009 TC4011BP
[RMS BOARD(2/2)]
IC1010 TC4011 AMP
D902
MUTE
S.ACK
KEY
IC1010 (1/3)
IC1010 (2/3)
D901
R901 1k
C901 4.7/50V
R902 680k
IC1010 (3/3)
R903 10k
Q901
D901,902 ISS132
Q901 BA1A4M SWITCHING
O
N
M
B
L
P
A
H
I
K
L
D
E
K
F

Note:

- ——— : B+bus.
- Voltages are dc with noted.
- Readings are taken VOM (50 kΩ/V).
  no mark: STOP

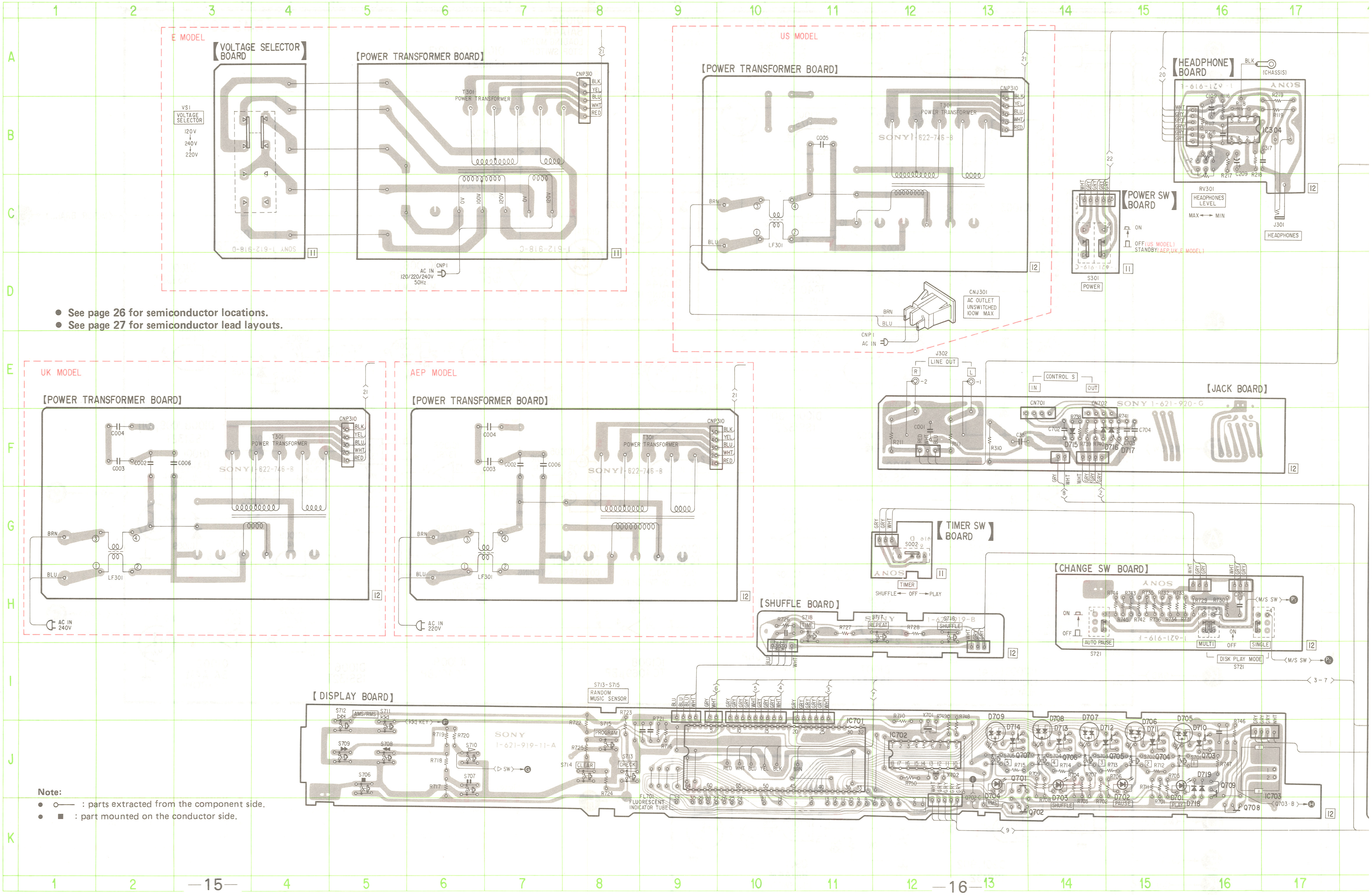
## 5-2. SCHEMATIC DIAGRAM


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J
【RMS BOARD (1/2)】
O TT OPN
N TT CLS
M TT ON
B CAM SW
L B+
P MS SW
A SENS
H Q703·B
I Q702·C
K GND
J MOTOR BRAKE
C O/C
G ▷ SW
IC1007 (1/4)
IC1003 μPC339C DISK TABLE B-UP POSITION DET
IC1007 (2/4)
IC1007 TC4081BP
IC1001 (1/2) TC4075BP DISK TABLE CLOSE DET
Q1005 DTA114 SWITCHING
Q1004 BA1A4M LOADING MOTOR STOP SWITCH
D1010, 1012, 1013 1SS132T
D1014 1SS132T
D1013
R1025 33k
R1026 100k
R1027 10k
IC1001 (1/3)
D1010
R1020 100k
R1021 1k
C1010 1/50V
C1011 4.7/50V
D1012
Q1003
Q1004
R1003 10k
R1004 10k
R1010 1.5k
R1011 1k
R1012 1k
R1009 1k
R1008 470
IC1003
IC1002 (2/6)
IC1001 (2/3)
IC1002 (3/6)
IC1001 (2/3) TC4075BP B-UP POSITION DET
Q1003 DTA144 LOADING MOTOR STOP SWITCHING
IC1002 (1/6)
IC1006 TC4011BP MONO/MULTI
D1011 1SS132T
D1005 1SS132T
R1001 100k
D1001
C1001 0.1
R1005 10k
C1003 1/50V
R1013 10k
IC1001 (3/3)
IC1004 (1/2)
IC1006 (1/4)
IC1006 (2/4)
IC1006 (3/4)
C1005 4.7/50V
R1015 220k
D1005
IC1006 (4/4)
IC1008 (6/6)
R1002 100k
C1002 4.7/50V
D1002
D1001-1003 1SS132T
D1003
D1004 1SS132
IC1002 (4/6)
R1014 100k
D1004
C1004 0.1
IC1004 (2/2)
IC1005
R1016 10k
C1008 0.1
IC1008 (3/6)
IC1007 (3/4)
D1008, 1009, 1011 1SS132T
Q1001 BA1A4M OPEN/CLOSE SWITCHING
R1019 100k
R1018 220k
D1011
D1006
C1006 47/16V
D1008
IC1007 (4/4)
IC1002 (5/6)
R1006 22k
5V p-p
4.8Vp-p
R1007 100k
9mSEC
9mSEC
IC1002 (6/6)
IC1004 TC4012BP SINGLE/MULTI SELECTOR SWITCHING
IC1005 TC4024BP COUNTER SWITCHING
R1017 100k
IC1008 (4/6)
C1007 1/50V
IC1009 (1/4)
IC1008 (1/6)
D1009
D1007
R1023 1k
IC1009 (3/4)
IC1009 (4/4)
R1022 100k
C1009 22/25V
R1024 100k
IC1009 (4/4) ENDING KEY PLAY DET
4.8→3.2 (1.8SEC)
D1007 1SS132T
IC1002 TC4069μBP COMPARATOR
IC1008 (5/6)
IC1008 TC4069μBP
IC1009 TC4011BP
IC1009 (2/4)
IC1008 (2/6)
D1006 1SS132T
Q1002 BA1A4M ▷ SWITCHING
Q1002
Q1001


【RMS BOARD (2/2)】
L B+
D MUTE
E S.ACK
K GND
F KEY
IC1010 TC4011 AMP
IC1010 (1/3)
IC1010 (2/3)
IC1010 (3/3)
D902
D901
R901 1k
C901 4.7/50V
R902 680k
R903 10k
Q901
D901, 902 1SS132
Q901 BA1A4M ⏮ SWITCHING

Note:
- ▬ : B+ bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with VOM (50 kΩ/V).
  no mark: STOP
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken to ground in STOP mode by using oscilloscope.
  Voltage variations may be noted due to normal production tolerances.

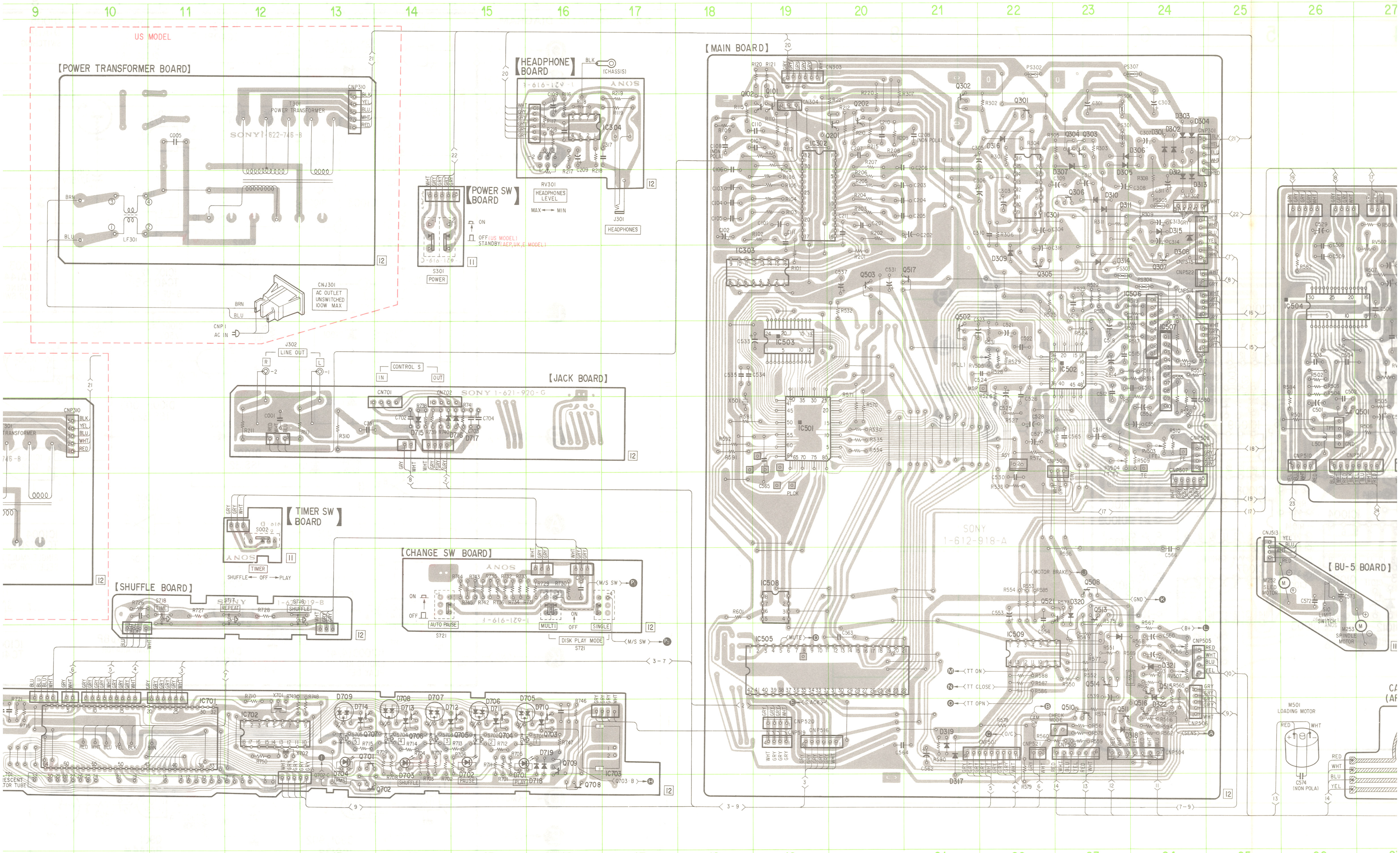
## 5-3. MOUNTING DIAGRAM

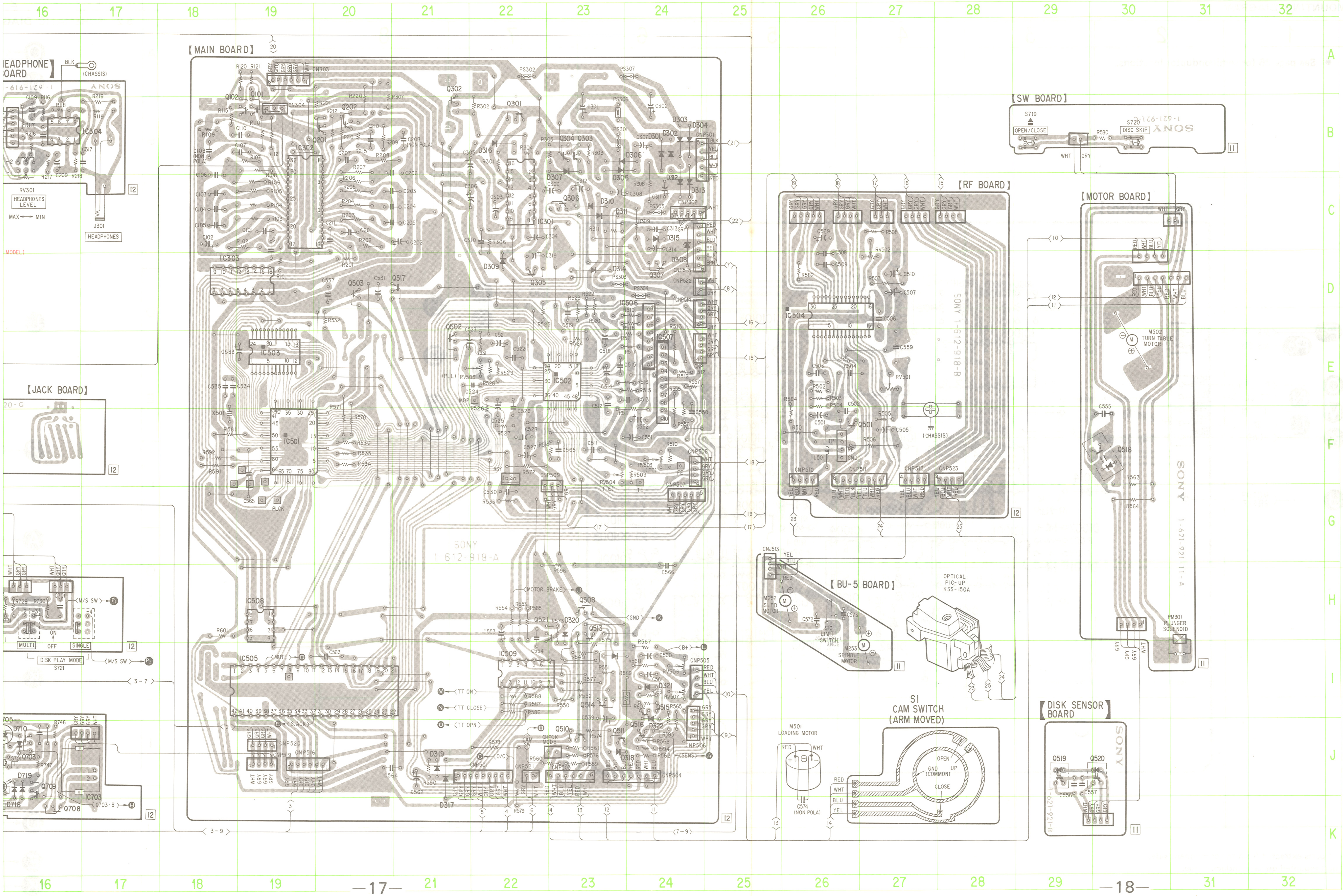

E MODEL
VOLTAGE SELECTOR BOARD
VS1 VOLTAGE SELECTOR
120V
240V
220V
POWER TRANSFORMER BOARD
T301 POWER TRANSFORMER
CNP310
BLK
YEL
BLU
WHT
RED
CNP1
AC IN 120/220/240V 50Hz
US MODEL
POWER TRANSFORMER BOARD
SONY 1-622-746-B
C005
LF301
BRN
BLU
CNJ301 AC OUTLET UNSWITCHED 100W MAX
CNP1 AC IN
HEADPHONE BOARD
BLK
(CHASSIS)
IC304
RV301 HEADPHONES LEVEL
MAX MIN
J301 HEADPHONES
POWER SW BOARD
ON
OFF (US MODEL)
STANDBY (AEP, UK, E MODEL)
S301 POWER
UK MODEL
POWER TRANSFORMER BOARD
C004
C003
C002
C006
AC IN 240V
AEP MODEL
POWER TRANSFORMER BOARD
AC IN 220V
J302 LINE OUT
R
L
CONTROL S
IN
OUT
JACK BOARD
CN701
CN702
SONY 1-621-920-G
TIMER SW BOARD
S002
TIMER
SHUFFLE OFF PLAY
CHANGE SW BOARD
M/S SW
AUTO PAUSE
S721
MULTI
SINGLE
DISK PLAY MODE
S721
SHUFFLE BOARD
S718 TIME
S717 REPEAT
S716 SHUFFLE
DISPLAY BOARD
S713-S715 RANDOM MUSIC SENSOR
S712 AMS/RMS
S711
S709
S708
S706
S710
S707
S715 PROGRAM
S713 CHECK
S714 CLEAR
FL701 FLUORESCENT INDICATOR TUBE
IC701
IC702
IC703
SONY 1-621-919-11-A

- See page 26 for semiconductor locations.
- See page 27 for semiconductor lead layouts.

Note:

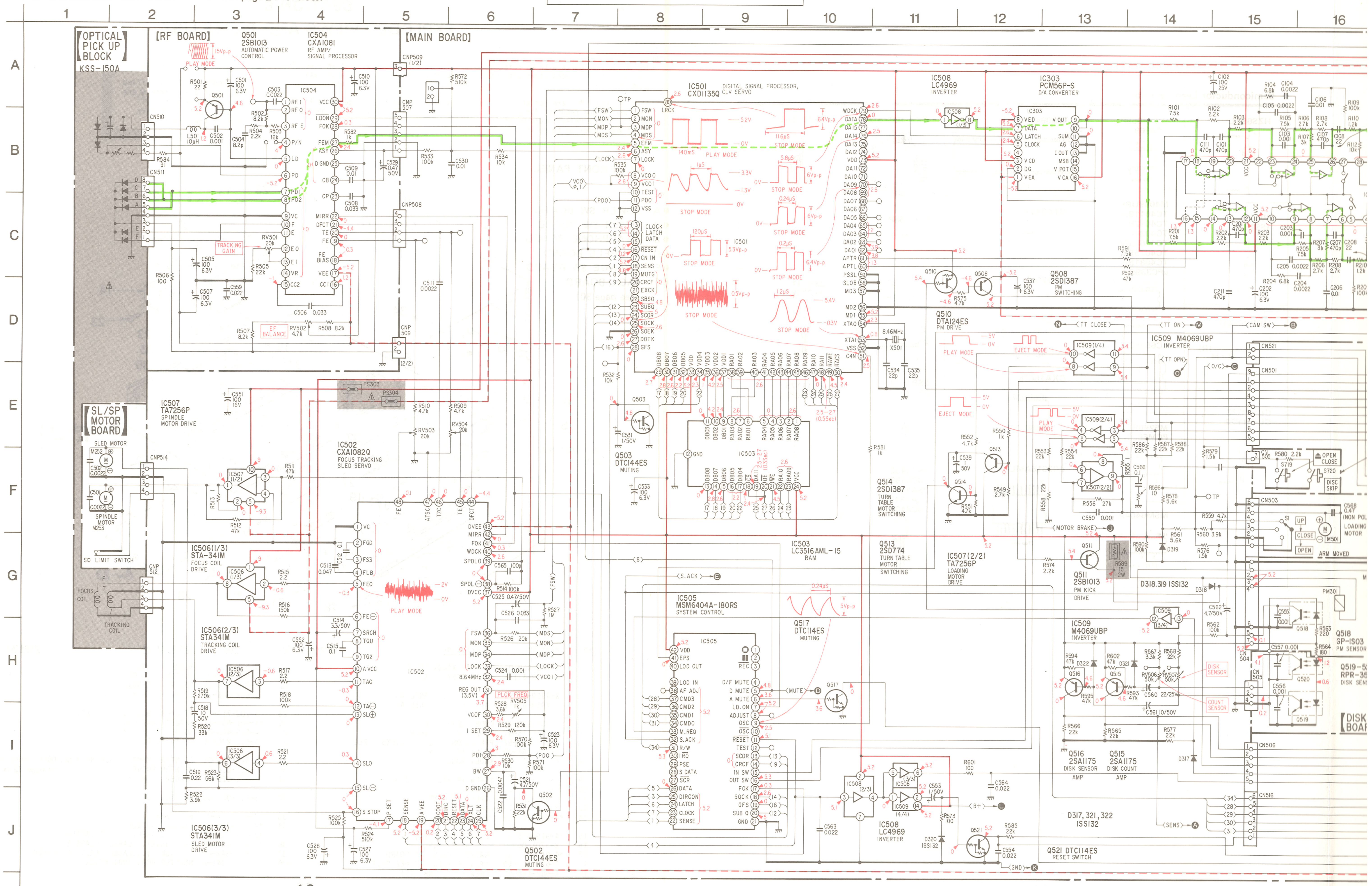
- ○—— : parts extracted from the component side.
- ■ : part mounted on the conductor side.

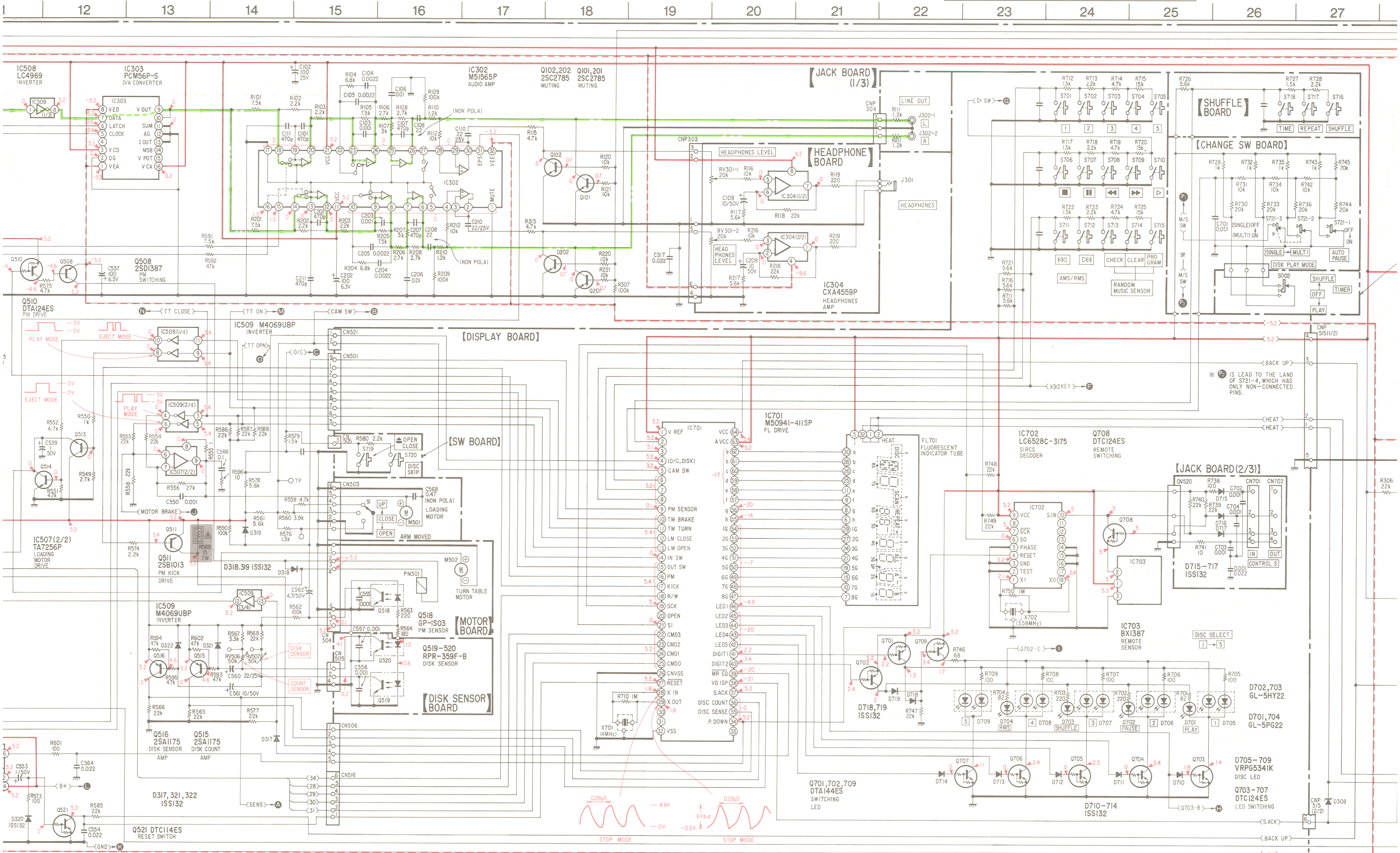

US MODEL
【POWER TRANSFORMER BOARD】
CNP310
T301
POWER TRANSFORMER
SONY 1-622-746-B
LF301
C005
CNJ301
AC OUTLET
UNSWITCHED
100W MAX
CNP1
AC IN
【HEADPHONE】
BOARD
(CHASSIS)
IC304
RV301
HEADPHONES
LEVEL
MAX ←→ MIN
J301
HEADPHONES
【POWER SW】
BOARD
S301
POWER
ON
OFF (US MODEL)
STANDBY (AEP,UK,E MODEL)
J302
LINE OUT
CONTROL S
IN
OUT
【JACK BOARD】
SONY 1-621-920-G
CN701
CN702
【TIMER SW】
BOARD
S002
TIMER
SHUFFLE ← OFF → PLAY
【SHUFFLE BOARD】
S718
TIME
S717
REPEAT
S716
SHUFFLE
【CHANGE SW BOARD】
AUTO PAUSE
S721
MULTI
SINGLE
DISK PLAY MODE
M/S SW
IC701
IC702
IC703
FLUORESCENT INDICATOR TUBE
RMS
SHUFFLE
PAUSE
PLAY
【MAIN BOARD】
IC301
IC302
IC303
IC501
IC502
IC503
IC504
IC505
IC506
IC507
IC508
IC509
SONY
1-612-918-A
MOTOR BRAKE
GND
MUTE
S.ACK
TT ON
TT CLOSE
TT OPN
SENS
PLCK
MDP
ASY
FE
TE
CNP501
CNP502
CNP503
CNP504
CNP505
CNP506
CNP507
CNP508
CNP509
CNP510
CNP511
CNP512
CNP513
CNJ513
【BU-5 BOARD】
M252
SLED
MOTOR
M253
SPINDLE
MOTOR
S10
LIMIT
SWITCH
M501
LOADING MOTOR
C574
(NON POLAR)

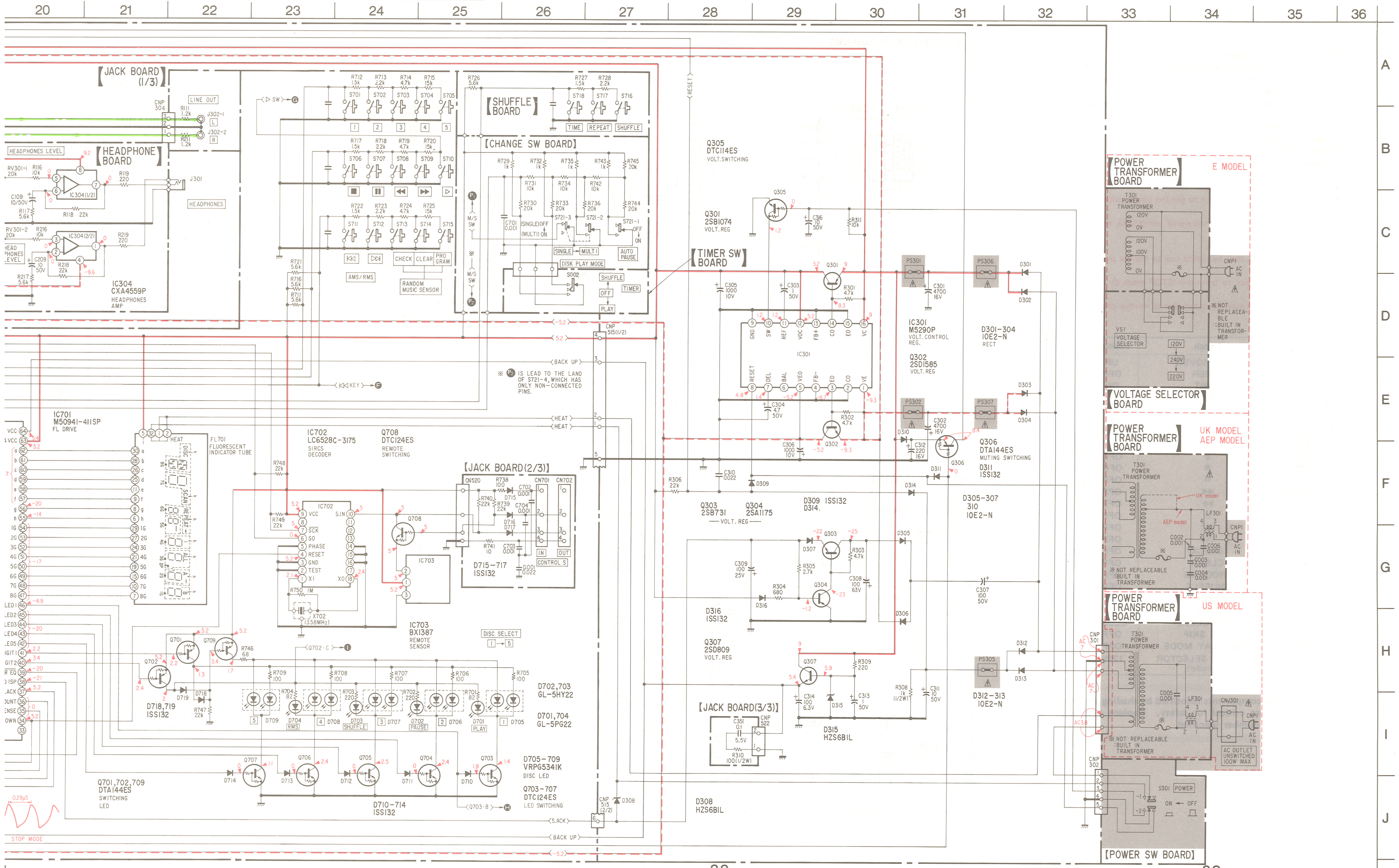

[MAIN BOARD]
HEADPHONE BOARD
HEADPHONES LEVEL
MAX ←→ MIN
J301
HEADPHONES
[JACK BOARD]
MULTI
SINGLE
DISK PLAY MODE
S721
[SW BOARD]
S719
OPEN/CLOSE
S720
DISC SKIP
[RF BOARD]
[MOTOR BOARD]
M502
TURN TABLE MOTOR
PM301
PLUNGER SOLENOID
[BU-5 BOARD]
M252
SLED MOTOR
S10
LIMIT SWITCH
M253
SPINDLE MOTOR
OPTICAL PIC-UP
KSS-150A
S1
CAM SWITCH
(ARM MOVED)
OPEN
UP
GND (COMMON)
CLOSE
M501
LOADING MOTOR
C574
(NON POLA)
[DISK SENSOR BOARD]
IC301
IC302
IC303
IC304
IC501
IC502
IC503
IC504
IC505
IC506
IC507
IC508
IC509
IC703
SONY 1-612-918-A
SONY 1-612-918-B
SONY 1-621-921-11-A
MOTOR BRAKE
MUTE
S.ACK
TT ON
TT CLOSE
TT OPN
CHECK MODE
GND
B+
SENS
(CHASSIS)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
A B C D E F G H I J K

## 5-4. SCHEMATIC DIAGRAM

• See page 24 for note.


OPTICAL PICK UP BLOCK
KSS-150A
[RF BOARD]
Q501 2SB1013 AUTOMATIC POWER CONTROL
IC504 CXA1081 RF AMP/ SIGNAL PROCESSOR
[MAIN BOARD]
IC501 CXD1135Q DIGITAL SIGNAL PROCESSOR, CLV SERVO
IC508 LC4969 INVERTER
IC303 PCM56P-S D/A CONVERTER
SL/SP MOTOR BOARD
SLED MOTOR
SPINDLE MOTOR
LIMIT SWITCH
FOCUS COIL
TRACKING COIL
IC507 TA7256P SPINDLE MOTOR DRIVE
IC502 CXA1082Q FOCUS TRACKING SLED SERVO
IC506(1/3) STA341M FOCUS COIL DRIVE
IC506(2/3) STA341M TRACKING COIL DRIVE
IC506(3/3) STA341M SLED MOTOR DRIVE
Q503 DTC144ES MUTING
Q502 DTC144ES MUTING
IC503 LC3516AML-15 RAM
IC505 MSM6404A-180RS SYSTEM CONTROL
Q517 DTC114ES MUTING
Q510 DTA124ES PM DRIVE
Q508 2SD1387 PM SWITCHING
Q514 2SD1387 TURN TABLE MOTOR SWITCHING
Q513 2SD774 TURN TABLE MOTOR SWITCHING
IC507(2/2) TA7256P LOADING MOTOR DRIVE
Q511 2SB1013 PM KICK DRIVE
IC509 M4069UBP INVERTER
D318,319 1SS132
Q516 2SA1175 DISK SENSOR AMP
Q515 2SA1175 DISK COUNT AMP
D317, 321, 322 1SS132
Q521 DTC114ES RESET SWITCH
IC508 LC4969 INVERTER
Q518 GP-1S03 PM SENSOR
Q519-5 RPR-35 DISK SENSOR
LOADING MOTOR
ARM MOVED
OPEN CLOSE
DISC SKIP
PLAY MODE
STOP MODE
EJECT MODE
TRACKING GAIN
EF BALANCE
PLCK FREQ
DISK SENSOR
COUNT SENSOR


12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
IC508 LC4969 INVERTER
IC303 PCM56P-S D/A CONVERTER
IC302 M51565P AUDIO AMP
Q102,202 2SC2785 MUTING
Q101,201 2SC2785 MUTING
[JACK BOARD] (1/3)
LINE OUT
J302-1
J302-2
[HEADPHONE BOARD]
HEADPHONES LEVEL
HEADPHONES
J301
IC304 CXA4559P HEADPHONES AMP
[SHUFFLE BOARD]
TIME
REPEAT
SHUFFLE
[CHANGE SW BOARD]
AMS/RMS
CHECK
CLEAR
PRO GRAM
RANDOM MUSIC SENSOR
SINGLE
MULTI
DISK PLAY MODE
AUTO PAUSE
OFF
PLAY
TIMER
Q510 DTA124ES PM DRIVE
Q508 2SD1387 PM SWITCHING
IC509 M4069UBP INVERTER
[DISPLAY BOARD]
PLAY MODE
EJECT MODE
[SW BOARD]
OPEN
CLOSE
DISC SKIP
LOADING MOTOR
ARM MOVED
M501
IC507(2/2) TA7256P LOADING MOTOR DRIVE
Q511 2SB1013 PM KICK DRIVE
D318,319 ISS132
M502 TURN TABLE MOTOR
PM301
Q518 GP-1S03 PM SENSOR
[MOTOR BOARD]
Q519-520 RPR-359F-B DISK SENSOR
[DISK SENSOR BOARD]
IC509 M4069UBP INVERTER
Q516 2SA1175 DISK SENSOR AMP
Q515 2SA1175 DISK COUNT AMP
D317,321,322 ISS132
Q521 DTC114ES RESET SWITCH
IC701 M50941-411SP FL DRIVE
FL701 FLUORESCENT INDICATOR TUBE
IC702 LC6528C-3175 SIRCS DECODER
Q708 DTC124ES REMOTE SWITCHING
[JACK BOARD(2/3)]
IC703 BX1387 REMOTE SENSOR
D715-717 ISS132
CONTROL S
DISC SELECT
D718,719 ISS132
D702,703 GL-5HY22
D701,704 GL-5PG22
D705-709 VRPG5341K DISC LED
D703-707 DTC124ES LED SWITCHING
Q701,702,709 DTA144ES SWITCHING LED
D710-714 ISS132
X701 (4MHz)
X702 (3.58MHz)
STOP MODE
0.29μS
6Vp-p
※ P2 IS LEAD TO THE LAND OF S721-4, WHICH HAS ONLY NON-CONNECTED PINS.


20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
A
B
C
D
E
F
G
H
I
J
JACK BOARD (1/3)
CNP 304
LINE OUT
R111 1.2k
R211 1.2k
J302-1
J302-2
L
R
HEADPHONES LEVEL
HEADPHONE BOARD
RV301-1 20k
R116 10k
R119 220
J301
HEADPHONES
C109 10/50V
IC304(1/2)
R117 5.6k
R118 22k
RV301-2 20k
R216 10k
IC304(2/2)
R219 220
C209 10 50V
R218 22k
R217 5.6k
IC304 CXA4559P HEADPHONES AMP
SW
R712 1.5k
R713 2.2k
R714 4.7k
R715 15k
S701
S702
S703
S704
S705
R717 1.5k
R718 2.2k
R719 4.7k
R720 15k
S706
S707
S708
S709
S710
R722 1.5k
R723 2.2k
R724 4.7k
R725 15k
S711
S712
S713
S714
S715
CHECK
CLEAR
PROGRAM
AMS/RMS
RANDOM MUSIC SENSOR
R721 5.6k
R716 5.6k
R711 5.6k
R726 5.6k
SHUFFLE BOARD
R727 1.5k
R728 2.2k
S718
S717
S716
TIME
REPEAT
SHUFFLE
CHANGE SW BOARD
R729 1k
R732 1k
R735 1k
R743 1k
R745 20k
R731 10k
R734 10k
R742 10k
R730 20k
R733 20k
R736 20k
R744 20k
C701 0.001
SINGLE OFF
(MULTI) ON
S721-3
S721-2
S721-1
OFF
ON
SINGLE
MULTI
AUTO PAUSE
DISC PLAY MODE
S002
SHUFFLE
OFF
PLAY
TIMER
M/S SW
CNP 515(1/2)
RESET
BACK UP
KEY
HEAT
5.2
※ P IS LEAD TO THE LAND OF S721-4, WHICH HAS ONLY NON-CONNECTED PINS.
IC701 M50941-411SP FL DRIVE
FL701 FLUORESCENT INDICATOR TUBE
IC702 LC6528C-3175 SIRCS DECODER
Q708 DTC124ES REMOTE SWITCHING
JACK BOARD (2/3)
CN520
R738 100
C702 0.001
CN701
CN702
R740 22k
R739 22k
D715
C704 0.001
D716
D717
R741 10
C703 0.001
IN
OUT
CONTROL S
D715-717 ISS132
C0.001 0.022
R748 22k
R749 22k
VCC
SCK
SO
PHASE
RESET
GND
TEST
XI
XO
S.IN
R750 1M
X702 (3.58MHz)
IC703
IC703 BX1387 REMOTE SENSOR
DISC SELECT
Q701
Q709
Q702
R746 68
Q702 · C
R709 100
R708 100
R707 100
R706 100
R705 100
D718
D719
R747 22k
D718,719 ISS132
D709
D704 RMS
D708
D703 SHUFFLE
D707
D702 PAUSE
D706
D701 PLAY
D705
D702,703 GL-5HY22
D701,704 GL-5PG22
Q707
Q706
Q705
Q704
Q703
D714
D713
D712
D711
D710
D705-709 VRPG5341K DISC LED
Q703-707 DTC124ES LED SWITCHING
D710-714 ISS132
Q701,702,709 DTA144ES SWITCHING LED
Q703 · B
S.ACK
CNP 515 (2/2)
D308
D308 HZS6BIL
0.29μS
STOP MODE
Q305 DTC114ES VOLT.SWITCHING
Q301 2SB1074 VOLT.REG
Q305
C316 10 50V
R311 10k
TIMER SW BOARD
Q301
C305 1000 10V
C303 1 50V
R301 4.7k
IC301
GND SW REF VOC FB+ CO EO VC
RESET DEL BAL VEO FB- EO CO VE
C304 4.7 50V
C306 1000 10V
Q302
R302 4.7k
C310 0.022
D309
R306 22k
Q303 2SB731
Q304 2SA1175
VOLT. REG
D309 ISS132
D314
IC301 M5290P VOLT. CONTROL REG.
Q302 2SD1585 VOLT. REG
D301-304 10E2-N RECT
PS301
PS306
C301 4700 16V
D301
D302
PS302
PS307
C302 4700 16V
D303
D304
D310
C312 220 16V
Q306
Q306 DTA144ES MUTING SWITCHING
D311 ISS132
D311
D314
D305-307 310 10E2-N
Q303
D307
D305
C309 100 25V
R305 2.7k
R303 4.7k
C308 100 63V
R304 680
Q304
D316
D306
D316 ISS132
C307 100 50V
Q307 2SD809 VOLT. REG
Q307
R309 220
D315
C314 100 6.3V
C313 1 50V
D315 HZS6BIL
R308 1k (1/2W)
C311 10 50V
PS305
D312
D313
D312-313 10E2-N
JACK BOARD (3/3)
C351 0.1
5.5V
R310 100(1/2W)
CNP 522
POWER TRANSFORMER BOARD
E MODEL
T301 POWER TRANSFORMER
120V
0V
120V
100V
0V
CNP1
AC IN
※NOT REPLACEABLE :BUILT IN TRANSFORMER
VS1 VOLTAGE SELECTOR
120V
240V
220V
VOLTAGE SELECTOR BOARD
POWER TRANSFORMER BOARD
UK MODEL AEP MODEL
T301 POWER TRANSFORMER
UK model
AEP model
LF301
C002 0.001
C006 0.001
C003 0.001
C004 0.001
CNP1 AC IN
※NOT REPLACEABLE :BUILT IN TRANSFORMER
POWER TRANSFORMER BOARD
US MODEL
CNP 301
T301 POWER TRANSFORMER
C005 0.001
LF301
CNJ301
CNP1 AC IN
AC OUTLET UNSWITCHED 100W MAX
※NOT REPLACEABLE :BUILT IN TRANSFORMER
CNP 302
S301 POWER
ON ← OFF
POWER SW BOARD

**Note on Schematic Diagram:**

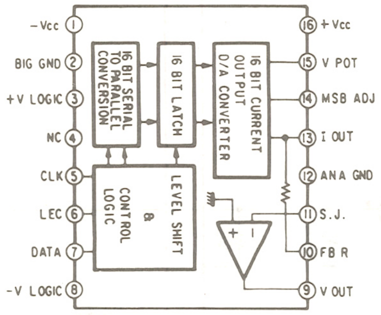
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : nonflammable resistor.
- —▶— - : L-CH Signal path.
- —▶- - -: R-CH Signal path.
- —— : B+ bus.
- - - - : B– bus.
- ☐ : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 kΩ/V).
  no mark: STOP
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken to ground in STOP mode by using oscilloscope.
- Voltage variations may be noted due to normal production tolerances.
- Switches:

| Ref. No. | Switch | Position |
|---|---|---|
| S1 | ARM MOVED | UP |
| S002 | TIMER | OFF |
| S10 | LIMIT | ON |
| S301 | POWER | OFF |
| S701 | 1 | OFF |
| S702 | 2 | OFF |
| S703 | 3 | OFF |
| S704 | 4 | OFF |
| S705 | 5 | OFF |
| S706 | ■ | OFF |
| S707 | ❚❚ | OFF |
| S708 | ◀◀ | OFF |
| S709 | ▶▶ | OFF |
| S710 | ▷ | OFF |
| S711 | \|◁◁ | OFF |
| S712 | ▷▷\| | OFF |
| S713 | CHECK | OFF |
| S714 | CLEAR | OFF |
| S715 | PROGLAM | OFF |
| S716 | SHUFFLE | OFF |
| S717 | REPEAT | OFF |
| S718 | TIME | OFF |
| S719 | OPEN/CLOSE | CLOSE |
| S720 | DISK SKIP | OFF |
| S721 | DISK PLAY MODE | OFF |
| VS1 | VOLTAGE SELECTOR<br>(E model) | 120V |

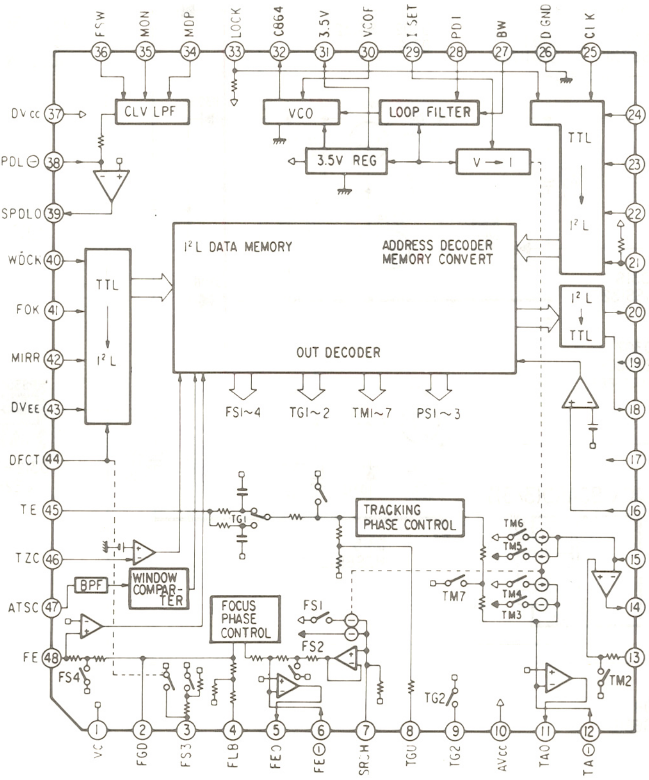
**Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.**

## • IC BLOCK DIAGRAMS

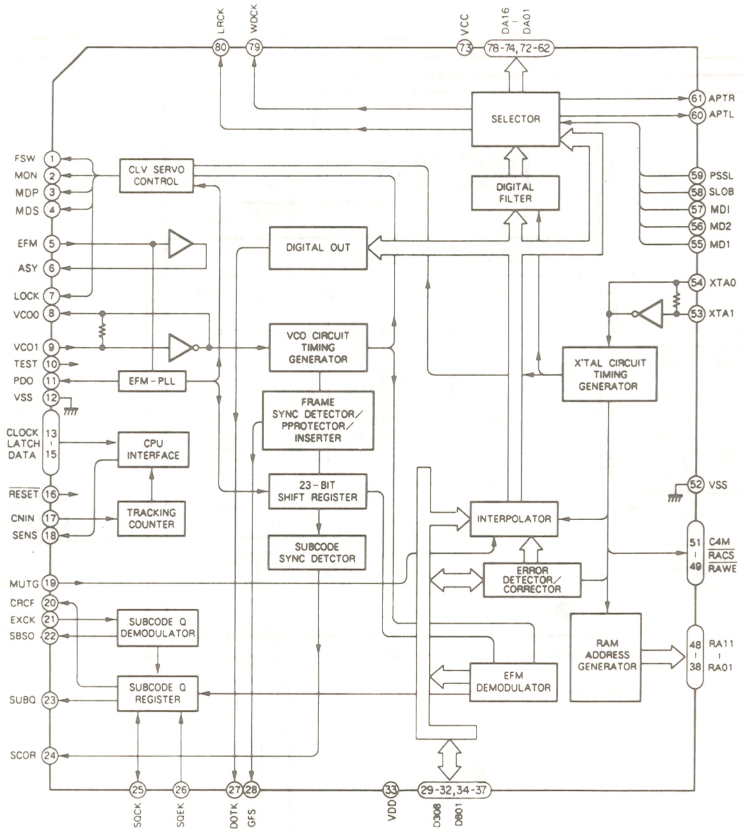
### IC303 PCM56P-S


–Vcc ①
BIG GND ②
+V LOGIC ③
NC ④
CLK ⑤
LEC ⑥
DATA ⑦
–V LOGIC ⑧
⑯ +Vcc
⑮ V POT
⑭ MSB ADJ
⑬ I OUT
⑫ ANA GND
⑪ S.J.
⑩ FB R
⑨ V OUT
16 BIT SERIAL TO PARALLEL CONVERSION
16 BIT LATCH
16 BIT CURRENT OUTPUT D/A CONVERTER
LEVEL SHIFT & CONTROL LOGIC

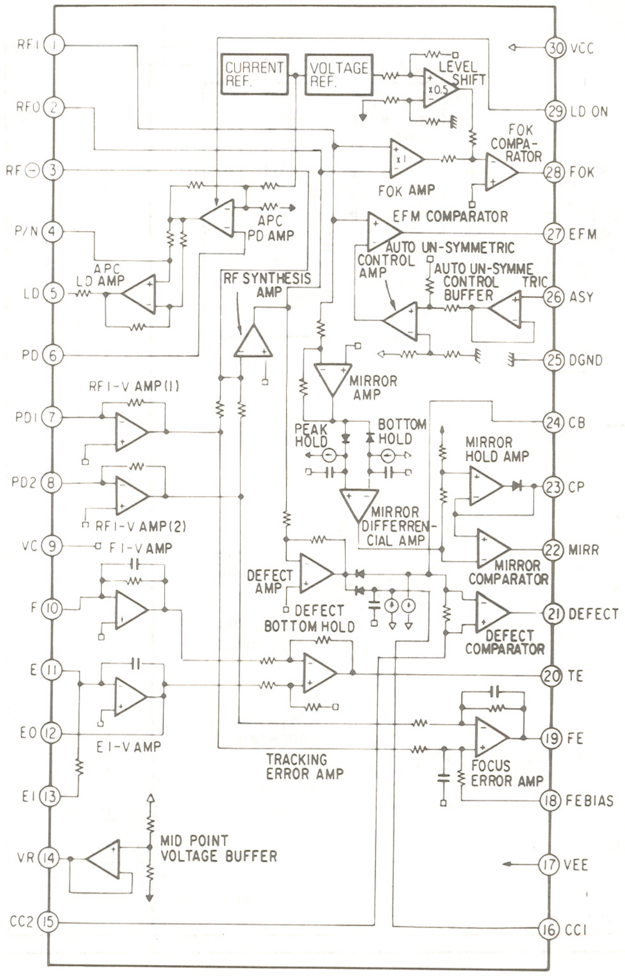
### IC502 CXA1082Q


FSW 36
MON 35
MDP 34
LOCK 33
C864 32
3.5V 31
VCOF 30
I SET 29
PDI 28
BW 27
D GND 26
CLK 25
DVcc 37
SPDL⊖ 38
SPDLO 39
WDCK 40
FOK 41
MIRR 42
DVEE 43
DFCT 44
TE 45
TZC 46
ATSC 47
FE 48
24 XLT
23 DATA
22 XRST
21 DIRC
20 C.OUT
19 AVEE
18 SENS
17 F SET
16 SSTOP
15 SL⊖
14 SLO
13 SL⊕
1 VC
2 FGD
3 FS3
4 FLB
5 FE0
6 FE⊖
7 SRCH
8 TGU
9 TG2
10 AVcc
11 TAO
12 TA⊖
CLV LPF
VCO
LOOP FILTER
3.5V REG
V → I
TTL
I²L
I²L DATA MEMORY
ADDRESS DECODER MEMORY CONVERT
OUT DECODER
FS1~4
TG1~2
TM1~7
PS1~3
TRACKING PHASE CONTROL
FOCUS PHASE CONTROL
WINDOW COMPARATER
BPF
TG1
FS1
FS2
FS4
TG2
TM2
TM3
TM4
TM5
TM6
TM7

### IC501 CXD1135Q


LRCK 80
WDCK 79
VCC 73
DA16 ~ DA01 78-74, 72-62
FSW 1
MON 2
MDP 3
MDS 4
EFM 5
ASY 6
LOCK 7
VCOO 8
VCO1 9
TEST 10
PDO 11
VSS 12
CLOCK LATCH DATA 13 ~ 15
RESET 16
CNIN 17
SENS 18
MUTG 19
CRCF 20
EXCK 21
SBSO 22
SUBQ 23
SCOR 24
61 APTR
60 APTL
59 PSSL
58 SLOB
57 MDI
56 MD2
55 MD1
54 XTAO
53 XTA1
52 VSS
51 ~ 49 C4M RACS RAWE
48 ~ 38 RA11 ~ RA01
25 SQCK
26 SQEK
27 DOTK
28 GFS
33 VDD
29-32, 34-37 D308 ~ D801
SELECTOR
DIGITAL FILTER
CLV SERVO CONTROL
DIGITAL OUT
VCO CIRCUIT TIMING GENERATOR
EFM-PLL
FRAME SYNC DETECTOR/ PPROTECTOR/ INSERTER
CPU INTERFACE
TRACKING COUNTER
23-BIT SHIFT REGISTER
SUBCODE SYNC DETCTOR
X'TAL CIRCUIT TIMING GENERATOR
INTERPOLATOR
ERROR DETECTOR/ CORRECTOR
RAM ADDRESS GENERATOR
EFM DEMODULATOR
SUBCODE Q DEMODULATOR
SUBCODE Q REGISTER

### IC504 CXA1081M


RFI ①
RFO ②
RF⊖ ③
P/N ④
LD ⑤
PD ⑥
PD1 ⑦
PD2 ⑧
VC ⑨
F ⑩
E ⑪
EO ⑫
EI ⑬
VR ⑭
CC2 ⑮
30 VCC
29 LD ON
28 FOK
27 EFM
26 ASY
25 DGND
24 CB
23 CP
22 MIRR
21 DEFECT
20 TE
19 FE
18 FEBIAS
17 VEE
16 CC1
CURRENT REF.
VOLTAGE REF.
LEVEL SHIFT
x0.5
x1
FOK AMP
FOK COMPARATOR
APC PD AMP
APC LD AMP
EFM COMPARATOR
AUTO UN-SYMMETRIC CONTROL AMP
AUTO UN-SYMMETRIC CONTROL BUFFER
RF SYNTHESIS AMP
MIRROR AMP
RFI-V AMP (1)
RFI-V AMP (2)
FI-V AMP
PEAK HOLD
BOTTOM HOLD
MIRROR HOLD AMP
MIRROR DIFFERRENCIAL AMP
MIRROR COMPARATOR
DEFECT AMP
DEFECT BOTTOM HOLD
DEFECT COMPARATOR
EI-V AMP
TRACKING ERROR AMP
FOCUS ERROR AMP
MID POINT VOLTAGE BUFFER

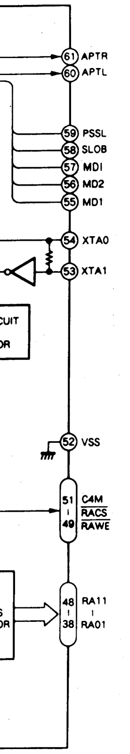
## • SEMICONDUCTOR LOCATIONS

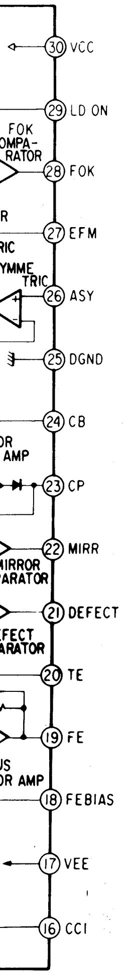
### [MAIN BOARD]

| Ref. No. | Location | Ref. No. | Loc |
|---|---|---|---|
| D301 | B-24 | D711 | J |
| D302 | B-24 | D712 | J |
| D303 | B-24 | D713 | J |
| D304 | B-24 | D714 | J |
| D305 | C-23 | D715 | F |
| D306 | B-24 | D716 | F |
| D307 | C-23 | D717 | F |
| D308 | D-24 | D718 | K |
| D309 | D-22 | D719 | J |
| D310 | C-23 | | |
| D311 | C-23 | IC301 | C |
| D312 | C-24 | IC302 | B |
| D313 | C-24 | IC303 | D |
| D314 | D-23 | IC304 | B |
| D315 | C-24 | IC501 | F |
| D316 | B-22 | IC502 | E |
| D317 | K-21 | IC503 | E |
| D318 | J-23 | IC504 | D |
| D319 | J-21 | IC505 | I- |
| D320 | H-23 | IC506 | D |
| D321 | I-24 | IC507 | E |
| D322 | J-24 | IC508 | H |
| D701 | J-15 | IC509 | I- |
| D702 | J-15 | IC701 | J |
| D703 | J-14 | IC702 | J |
| D704 | J-13 | IC703 | J |
| D705 | J-15 | | |
| D706 | J-15 | Q101 | A |
| D707 | J-14 | Q102 | B |
| D708 | J-14 | Q201 | B |
| D709 | I-13 | Q202 | B |
| D710 | J-16 | Q301 | B |

### [RMS BOARD]

| Ref. No. | Location | Ref. No. | Loc |
|---|---|---|---|
| D901 | C-6 | D1011 | C |
| D902 | C-6 | D1012 | E |
| D1001 | D-3 | D1013 | B |
| D1002 | D-3 | D1014 | D |
| D1003 | E-5 | | |
| D1004 | D-5 | IC1001 | D |
| D1005 | B-4 | IC1002 | D |
| D1006 | C-5 | IC1003 | C |
| D1007 | C-5 | IC1004 | D |
| D1008 | E-6 | IC1005 | D |
| D1009 | D-6 | IC1006 | C |
| D1010 | E-5 | IC1007 | E |


61 APTR
60 APTL
59 PSSL
58 SLOB
57 MDI
56 MD2
55 MD1
54 XTA0
53 XTA1
52 VSS
51 C4M
RACS
49 RAWE
48 RA11
38 RA01


30 VCC
29 LD ON
FOK
28 FOK
27 EFM
26 ASY
25 DGND
24 CB
23 CP
22 MIRR
21 DEFECT
20 TE
19 FE
18 FEBIAS
17 VEE
16 CCI

## • SEMICONDUCTOR LOCATIONS

### [MAIN BOARD]

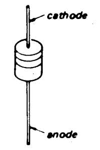
| Ref. No. | Location | Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|---|---|
| D301 | B-24 | D711 | J-15 | Q302 | A-21 |
| D302 | B-24 | D712 | J-14 | Q303 | B-23 |
| D303 | B-24 | D713 | J-14 | Q304 | B-23 |
| D304 | B-24 | D714 | J-13 | Q305 | D-22 |
| D305 | C-23 | D715 | F-14 | Q306 | C-23 |
| D306 | B-24 | D716 | F-15 | Q307 | D-24 |
| D307 | C-23 | D717 | F-15 | Q501 | F-27 |
| D308 | D-24 | D718 | K-16 | Q502 | D-21 |
| D309 | D-22 | D719 | J-16 | Q503 | D-20 |
| D310 | C-23 |  |  | Q508 | H-23 |
| D311 | C-23 | IC301 | C-22 | Q510 | J-23 |
| D312 | C-24 | IC302 | B-19 | Q511 | J-23 |
| D313 | C-24 | IC303 | D-18 | Q513 | H-23 |
| D314 | D-23 | IC304 | B-17 | Q514 | I-23 |
| D315 | C-24 | IC501 | F-19 | Q515 | I-24 |
| D316 | B-22 | IC502 | E-23 | Q516 | J-24 |
| D317 | K-21 | IC503 | E-19 | Q517 | D-21 |
| D318 | J-23 | IC504 | D-26 | Q518 | F-30 |
| D319 | J-21 | IC505 | I-19 | Q519 | J-29 |
| D320 | H-23 | IC506 | D-24 | Q520 | J-30 |
| D321 | I-24 | IC507 | E-24 | Q521 | H-22 |
| D322 | J-24 | IC508 | H-19 | Q701 | J-13 |
| D701 | J-15 | IC509 | I-22 | Q702 | K-14 |
| D702 | J-15 | IC701 | J-11 | Q703 | J-16 |
| D703 | J-14 | IC702 | J-12 | Q704 | J-15 |
| D704 | J-13 | IC703 | J-17 | Q705 | J-15 |
| D705 | J-15 |  |  | Q706 | J-14 |
| D706 | J-15 | Q101 | A-19 | Q707 | J-13 |
| D707 | J-14 | Q102 | B-18 | Q708 | K-16 |
| D708 | J-14 | Q201 | B-20 | Q709 | J-16 |
| D709 | I-13 | Q202 | B-20 |  |  |
| D710 | J-16 | Q301 | B-22 |  |  |

### [RMS BOARD]

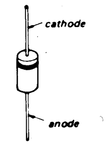
| Ref. No. | Location | Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|---|---|
| D901 | C-6 | D1011 | C-5 | IC1008 | D-5 |
| D902 | C-6 | D1012 | E-4 | IC1009 | D-5 |
| D1001 | D-3 | D1013 | B-5 | IC1010 | C-5 |
| D1002 | D-3 | D1014 | D-3 |  |  |
| D1003 | E-5 |  |  | Q901 | C-6 |
| D1004 | D-5 | IC1001 | D-3 | Q1001 | D-6 |
| D1005 | B-4 | IC1002 | D-4 | Q1002 | D-6 |
| D1006 | C-5 | IC1003 | C-3 | Q1003 | E-4 |
| D1007 | C-5 | IC1004 | D-4 | Q1004 | E-4 |
| D1008 | E-6 | IC1005 | D-4 | Q1005 | E-4 |
| D1009 | D-6 | IC1006 | C-4 |  |  |
| D1010 | E-5 | IC1007 | E-5 |  |  |

## • Semiconductor Lead Layouts

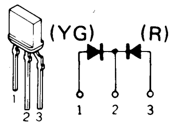
**HZS6B1L**


cathode
anode

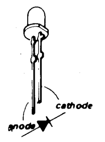
**10E2N**
**1SS132**


cathode
anode

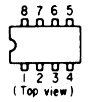
**VRPG5341K**



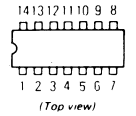
**GL-5PG22**
**GL-5HY22**


cathode
anode

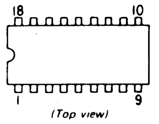
**CXA4559P**
**LC4969**


8 7 6 5
1 2 3 4
(Top view)

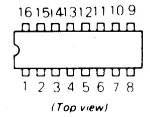
**M4069UBP**
**TC4011BP**
**TC4012BP**
**TC4024BP**
**TC4069µBP**
**TC4075BP**
**TC4081BP**
**µPC339C**


14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

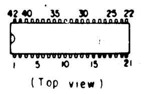
**LC6528C-3175**


18
10
1
9
(Top view)

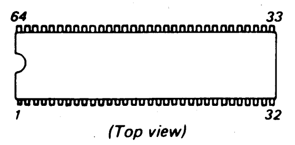
**M5290P**
**PCM56P-S**


16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
(Top view)

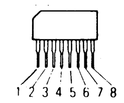
**MSM6404A-180RS**


42 40 35 30 25 22
1 5 10 15 21
(Top view)

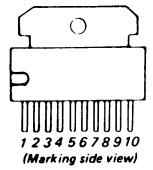
**M50941-411SP**


64
33
1
32
(Top view)

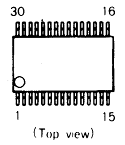
**STA341M**



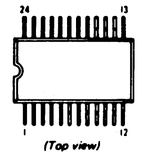
**TA7256P**


1 2 3 4 5 6 7 8 9 10
(Marking side view)

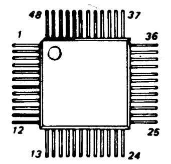
**CXA1081M**


30
16
1
15
(Top view)

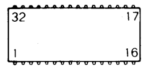
**LC3516AML-15**


24
13
1
12
(Top view)

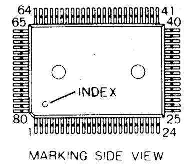
**CXA-1082AQ**


48
37
1
36
12
25
13
24

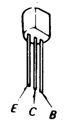
**M51565P**



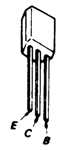
**CXD1135Q**


64
41
65
40
INDEX
80
25
1
24
MARKING SIDE VIEW

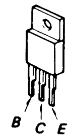
**2SB1013**
**2SD1387**



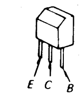
**2SC3402**
**2SC3399**
**2SA1346**
**2SA1348**
**2SC3400**



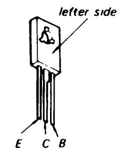
**2SB1094-L**



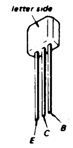
**2SD774**



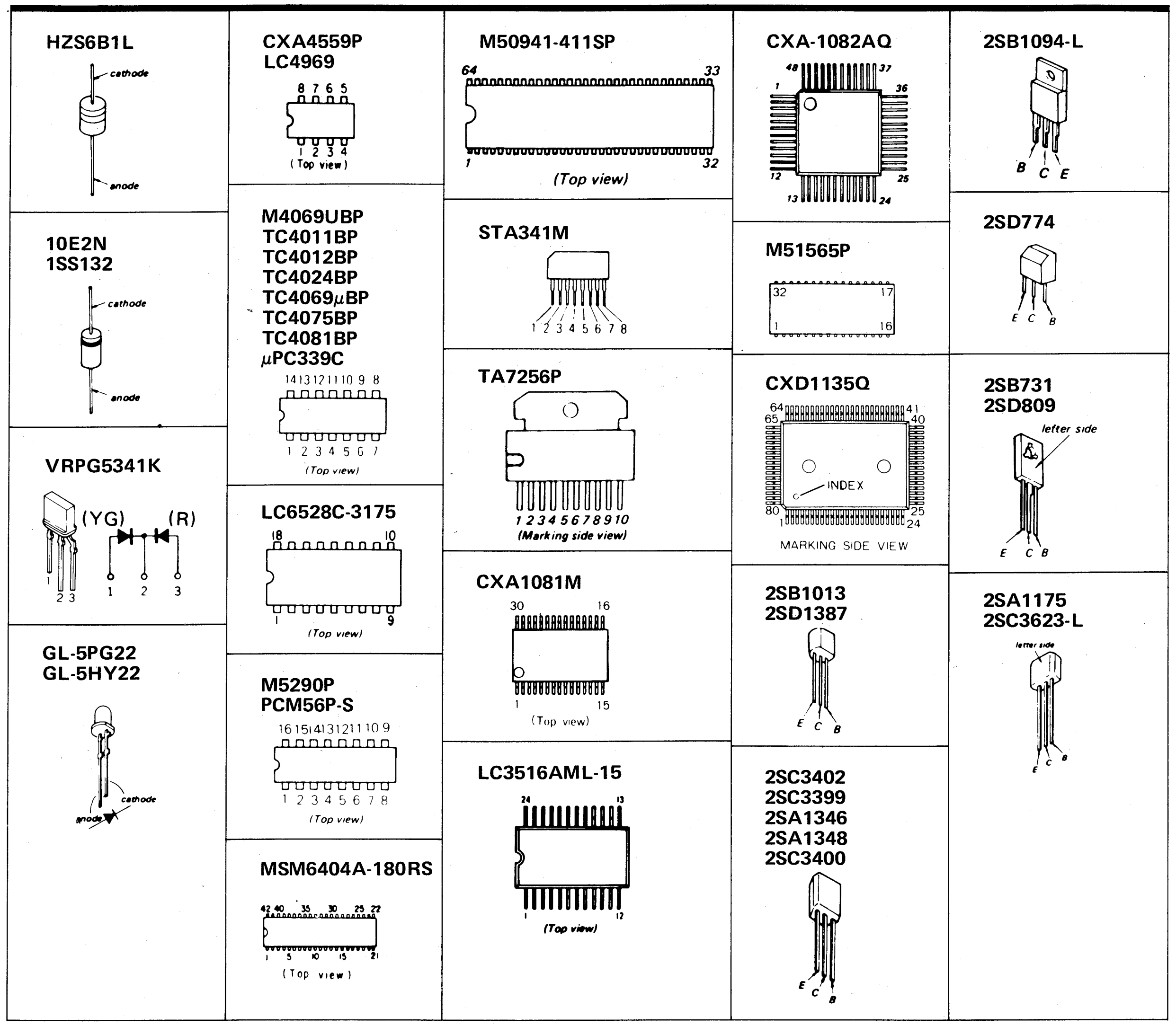
**2SB731**
**2SD809**


lefter side
E C B

**2SA1175**
**2SC3623-L**


letter side
E C B

- **Semiconductor Lead Layouts**


HZS6B1L
cathode
anode
10E2N
1SS132
cathode
anode
VRPG5341K
(YG)
(R)
2 3
1 2 3
GL-5PG22
GL-5HY22
cathode
anode
CXA4559P
LC4969
8 7 6 5
1 2 3 4
(Top view)
M4069UBP
TC4011BP
TC4012BP
TC4024BP
TC4069μBP
TC4075BP
TC4081BP
μPC339C
14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)
LC6528C-3175
18
10
1
9
(Top view)
M5290P
PCM56P-S
16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
(Top view)
MSM6404A-180RS
42 40 35 30 25 22
1 5 10 15 21
(Top view)
M50941-411SP
64
33
1
32
(Top view)
STA341M
1 2 3 4 5 6 7 8
TA7256P
1 2 3 4 5 6 7 8 9 10
(Marking side view)
CXA1081M
30
16
1
15
(Top view)
LC3516AML-15
24
13
1
12
(Top view)
CXA-1082AQ
48
37
1
36
12
25
13
24
M51565P
32
17
1
16
CXD1135Q
64
41
65
40
INDEX
80
25
1
24
MARKING SIDE VIEW
2SB1013
2SD1387
E C B
2SC3402
2SC3399
2SA1346
2SA1348
2SC3400
E C B
2SB1094-L
B C E
2SD774
E C B
2SB731
2SD809
letter side
E C B
2SA1175
2SC3623-L
letter side
E C B

# SECTION 6
# EXPLODED VIEWS AND PARTS LIST

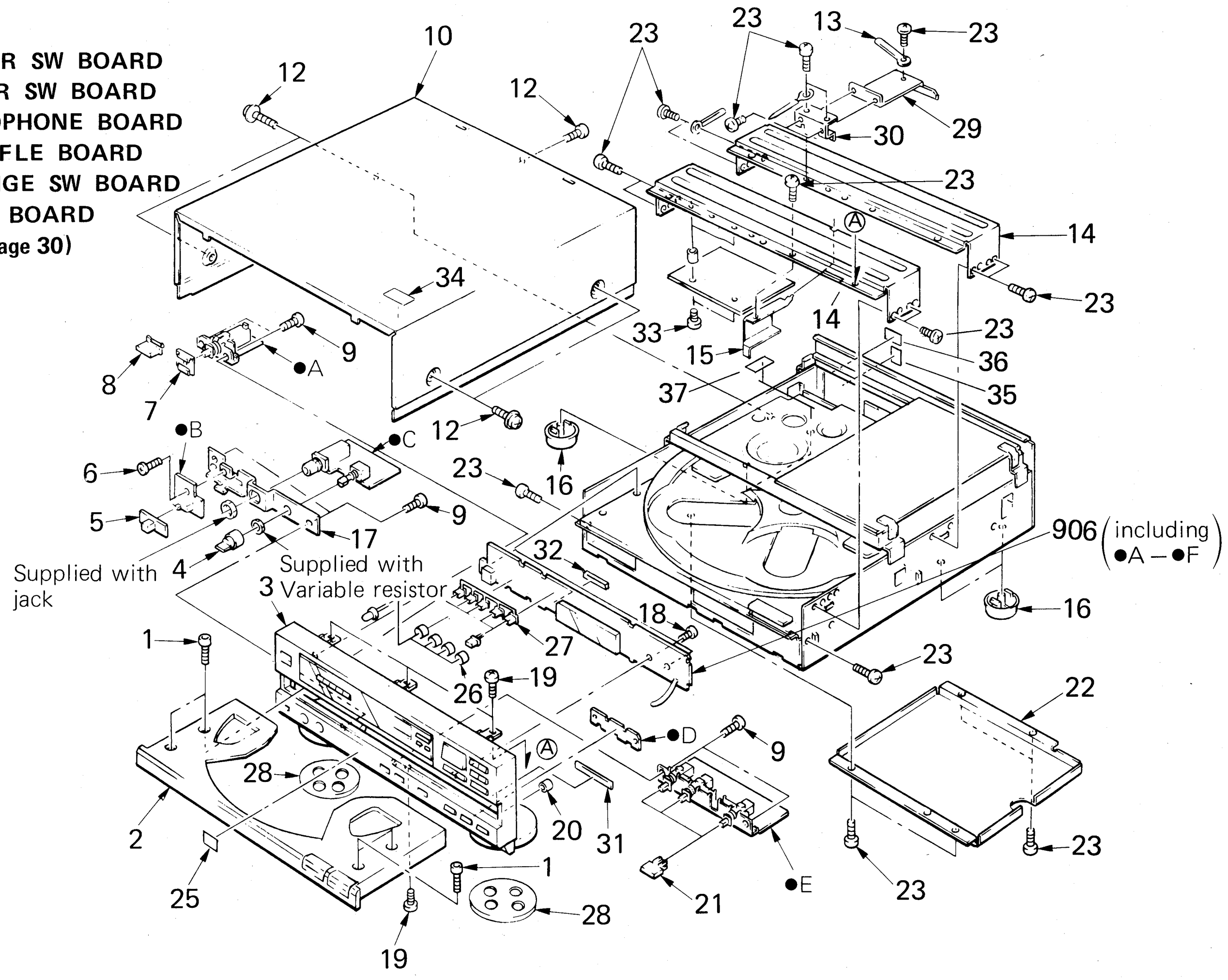
NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color Indication of Appearance Parts
  Example: (RED) ..... KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts' Color

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

## 6-1. FRONT PANEL

- ●A: POWER SW BOARD
- ●B: TIMER SW BOARD
- ●C: HEADPHONE BOARD
- ●D: SHUFFLE BOARD
- ●E: CHANGE SW BOARD
- ●F: JACK BOARD

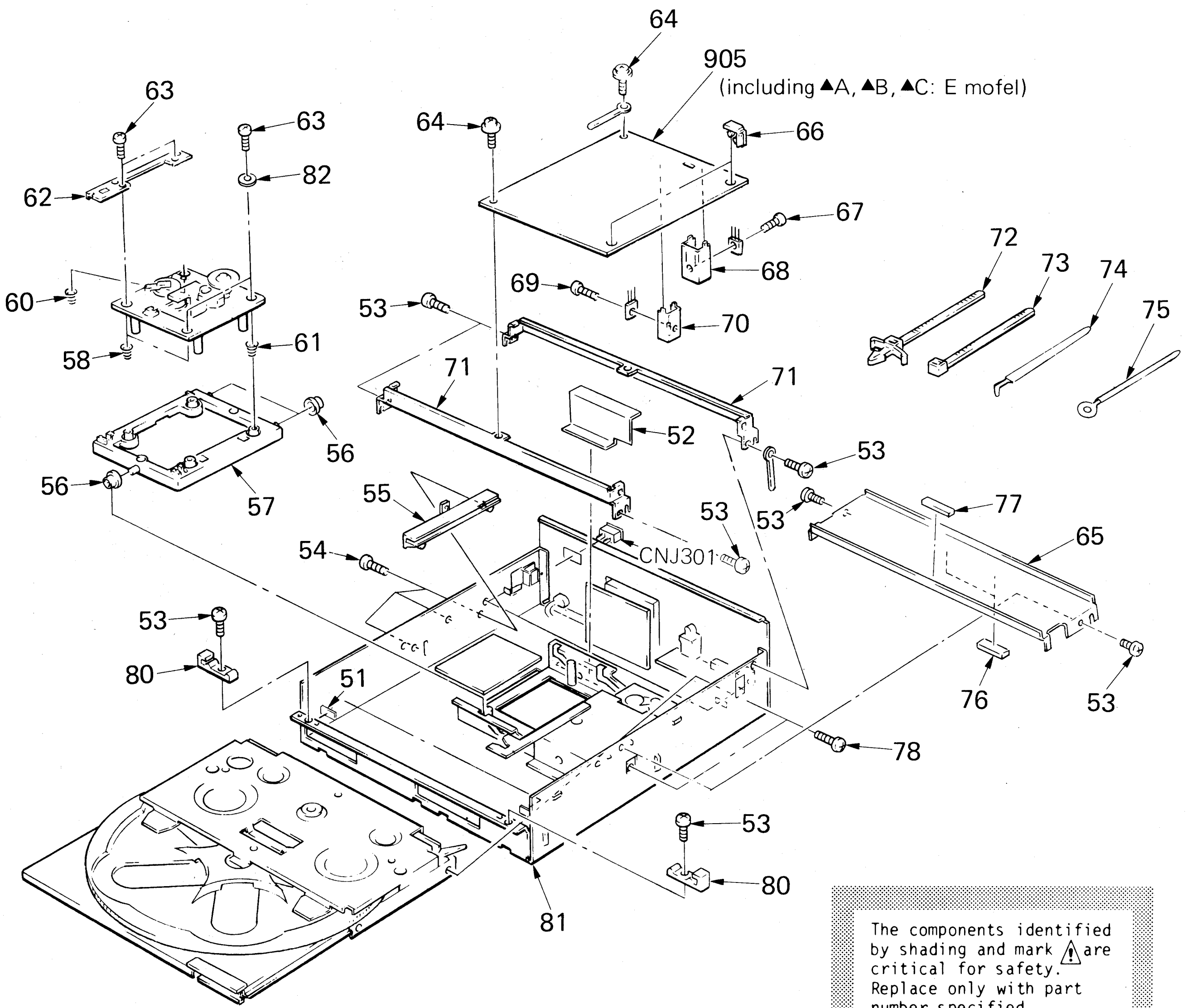
**(See page 30)**


10
12
12
23
23
13
23
30
29
23
14
23
Ⓐ
34
9
●A
8
7
●B
●C
6
5
4
Supplied with jack
3
Supplied with Variable resistor
17
9
12
23
16
33
15
14
37
23
36
35
906 (including ●A – ●F)
16
32
18
27
26
19
1
23
22
28
2
Ⓐ
●D
9
20
31
21
●E
23
23
25
1
28
19

| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 1 | 7-683-415-05 | BOLT, HEXAGON SOCKET 2.6X12 | |
| 2 | X-4919-411-1 | COVER ASSY, STATION | |
| 3 | X-4919-410-1 | (US).........PANEL ASSY, FRONT | |
| | X-4919-414-1 | (AEP,UK,E)...PANEL ASSY, FRONT | |
| 4 | 3-304-929-11 | KNOB, HEADPHONE | |
| 5 | 3-323-415-31 | KNOB, SWITCH TIMER | |
| 6 | 7-627-556-57 | PRECISION SCREW +P 2.6X5 TYPE1 | |
| 7 | 4-875-466-00 | JOINT (F2), KNOB | |
| 8 | 4-907-611-01 | KNOB, POWER | |
| 9 | 7-685-146-14 | SCREW +P 3X8 TYPE2 NON-SLIT | |
| 10 | 4-919-460-01 | CASE | |
| 12 | 7-682-147-09 | SCREW, M3 CASE | |
| 13 | 3-703-150-11 | CLAMP | |
| 14 | *4-919-447-01 | REINFORCEMENT | |
| 15 | *4-919-475-01 | REINFORCEMENT (M) | |
| 16 | X-3701-069-0 | FOOT ASSY, M.F | |
| 17 | *4-919-415-01 | BRACKET, FRONT PC BOARD | |
| 18 | 7-685-133-19 | SCREW +P 2.6X6 TYPE2 SLIT | |
| 19 | 7-682-148-01 | SCREW +BVTT 3X8 (S) | |

| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 20 | 3-538-051-00 | RUBBER, BRAKE | |
| 21 | 4-919-409-01 | BUTTON, SQUARE | |
| 22 | *4-919-453-01 | COVER, CHASSIS | |
| 23 | 7-682-546-04 | SCREW +BVTT 3X5 (S) | |
| 25 | 3-703-713-41 | STICKER, SONY SYMBOL (10) | |
| 26 | *4-901-657-11 | SPACER (A), LED | |
| 27 | *4-919-445-01 | HOLDER (B), LED | |
| 28 | 4-917-236-01 | FELT, FOOT | |
| 29 | *4-921-016-01 | REINFORCEMENT, CHUCKING BLOCK | (BU-5 only) Refer to page 32 (●) |
| 30 | *4-921-014-01 | REINFORCEMENT (SB) | |
| 31 | 4-921-020-01 | SPACER (PANEL) | |
| 32 | 3-314-903-00 | CUSHION 4X8 | |
| 33 | 7-685-874-09 | BVTT 3X12 | |
| 34 | *4-919-488-01 | LABEL, CAUTION | |
| 35 | *3-704-217-01 | (US)...LABEL, CERTIFICATION | |
| 36 | *4-885-838-00 | (AEP,UK,E)...LABEL, CLASS 1 | |
| 37 | 4-885-843-02 | (AEP,UK,E)...LABEL, CAUTION, LASER | |
| 906 | *A-4655-041-A | MOUNTED PCB, INDICATION | |

### 6-2. CHASSIS


63
63
82
62
60
58
61
56
56
57
64
905
(including ▲A, ▲B, ▲C: E mofel)
64
66
67
68
69
70
53
71
71
52
53
55
53
53
CNJ301
54
53
80
51
72
73
74
75
77
65
76
53
78
53
80
81

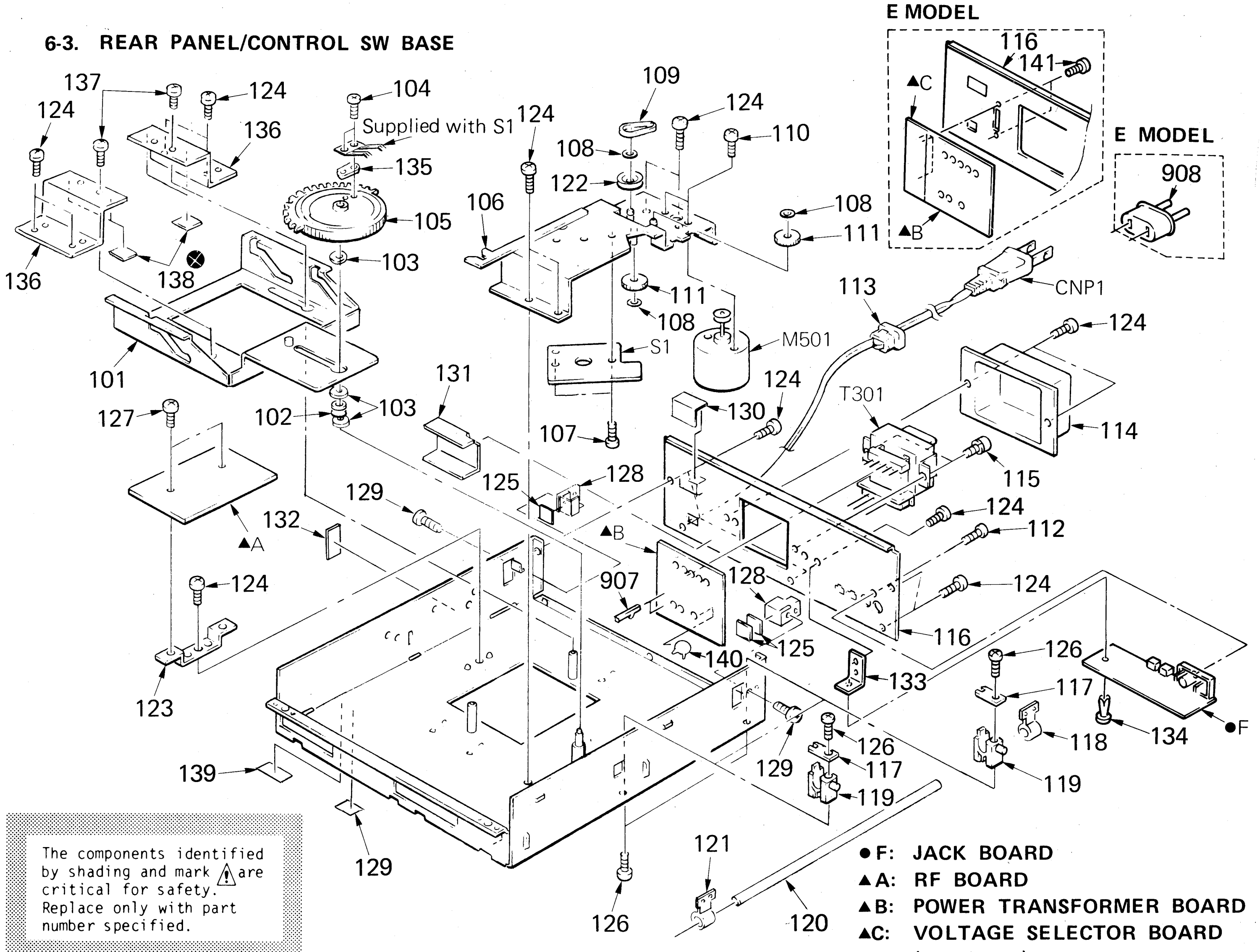
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

**Note on 57:** When replacing take away the spacers ( ⊗ on page 30 )

| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 51 | 9-911-841-XX | CUSHION, RUBBER | |
| 52 | *4-919-494-01 | COVER, TRANSFORMER | |
| 53 | 7-682-546-04 | SCREW +BVTT 3X5 (S) | |
| 54 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 SLIT | |
| 55 | 4-918-019-01 | GUIDE (REAR) | |
| 56 | *4-919-424-01 | ROLLER (BU) | |
| 57 | *4-919-457-01 | BASE, BU FITTING | |
| 58 | 4-917-507-01 | SPRING (H) | |
| 60 | 4-918-669-01 | SPRING (W) | |
| 61 | 4-917-541-01 | SPRING (B) | |
| 62 | *4-919-413-01 | BRACKET, BU | |
| 63 | 7-685-133-19 | SCREW +P 2.6X6 TYPE2 SLIT | |
| 65 | *4-921-012-01 | REINFORCEMENT, STATION BASE | |
| 66 | *3-710-565-01 | HINGE, PC BOARD | |
| 67 | 7-682-547-04 | SCREW +B 3X6 | |
| 68 | *4-880-403-11 | HEAT SINK | |
| 69 | 7-682-147-01 | SCREW +BVTT 3X6 (S) | |

| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 70 | *3-309-144-31 | HEAT SINK | |
| 71 | *4-919-446-01 | BRACKET, PC BOARD | |
| 72 | 3-704-208-01 | BAND, BINDING | |
| 73 | 3-701-748-00 | CLAMP | |
| 74 | *3-683-631-01 | CLAMP | |
| 75 | 3-703-150-11 | CLAMP | |
| 76 | *4-921-010-01 | CUSHION (D) | |
| 77 | *4-921-011-01 | SPACER (A) | |
| 78 | 7-682-647-09 | SCREW +PSW 3X6 | |
| 80 | 4-915-480-01 | GUIDE (FRONT) | |
| 81 | *X-4919-408-1 | CHASSIS ASSY | |
| 82 | 4-301-647-00 | WASHER | |
| 905 | *A-4651-121-A | (US,AEP,UK)...MOUNTED PCB, MAIN | |
| | *A-4651-122-A | (E)...........MOUNTED PCB, MAIN | |
| ⚠CNJ301 | 1-526-882-00 | (US)...OUTLET, AC (AC OUTLET) | |

### 6-3. REAR PANEL/CONTROL SW BASE


E MODEL
116
141
▲C
▲B
E MODEL
908
137
124
124
136
136
138
101
127
104
Supplied with S1
135
105
103
102
103
109
124
108
122
106
124
110
108
111
111
108
M501
S1
113
CNP1
124
131
124
107
130
T301
114
125
128
129
132
▲A
124
123
139
129
907
▲B
128
125
140
116
115
124
112
124
133
126
117
118
134
●F
126
117
119
119
129
121
126
120

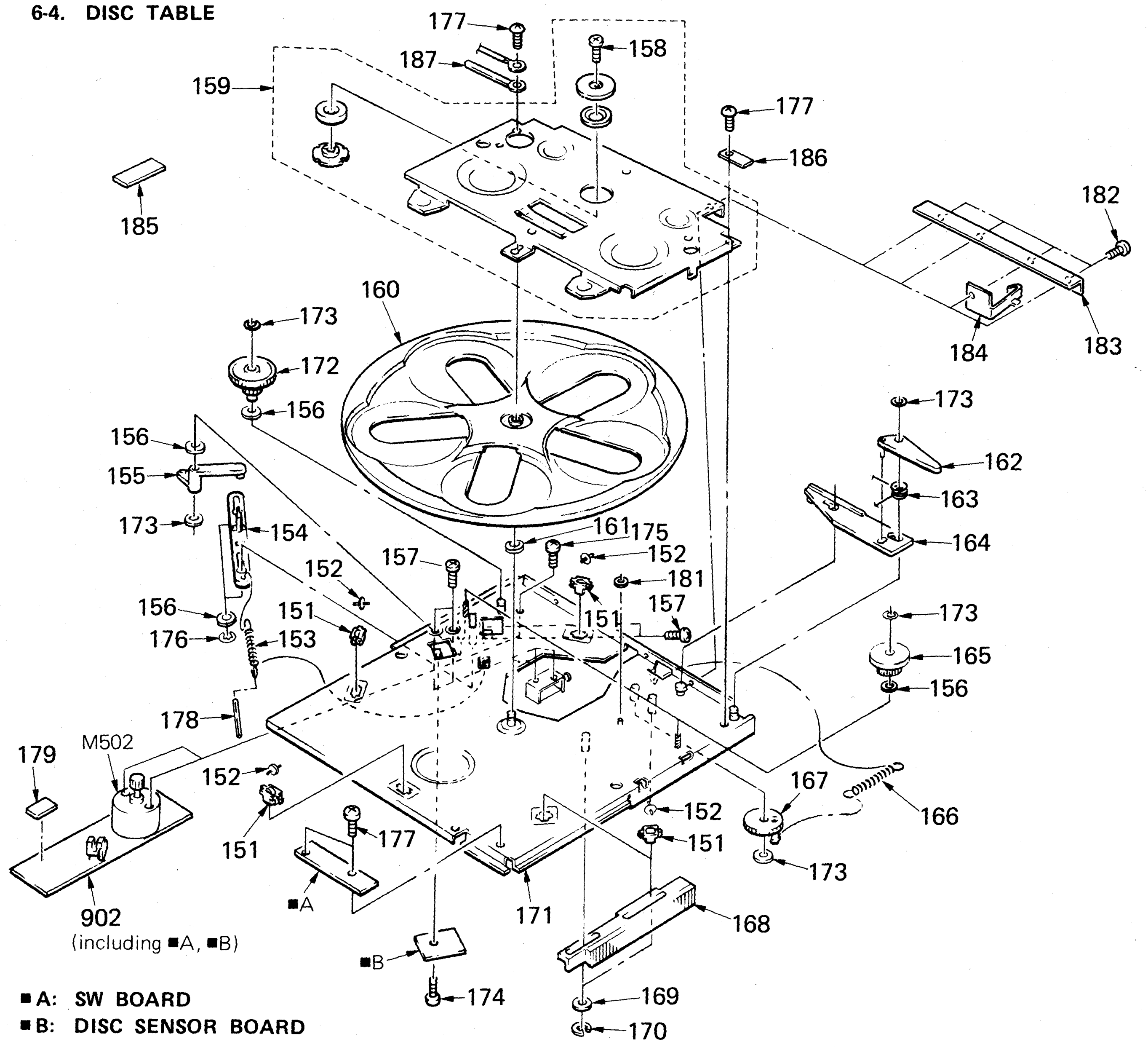
● F: JACK BOARD
▲A: RF BOARD
▲B: POWER TRANSFORMER BOARD
▲C: VOLTAGE SELECTOR BOARD (E MODEL)

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 101 | *X-4919-413-1 | SLIDER ASSY | |
| 102 | *4-919-423-01 | ROLLER (G) | |
| 103 | 3-701-441-21 | WASHER | |
| 104 | 7-685-799-04 | SCREW (1.7X2.5), TAPPING | |
| 105 | 4-919-452-01 | GEAR, CAM | |
| 106 | *X-4919-409-1 | BASE ASSY, CONTROL SW | |
| 107 | 7-685-790-04 | SCREW +PTT 2.6X4 (S) | |
| 108 | 3-558-708-21 | WASHER, STOPPER | |
| 109 | 3-653-387-00 | BELT, LM | |
| 110 | 4-885-599-00 | SCREW, FITTING, REINFORCEMENT | |
| 111 | 4-910-402-01 | GEAR (2), LOADING | |
| 112 | 7-685-146-14 | SCREW +P 3X8 TYPE2 NON-SLIT | |
| 113 | *3-703-244-00 | (US,AEP,UK)...BUSHING (2104), CORD | |
| | *3-703-571-11 | (E)........BUSHING (S)(4516), CORD | |
| 114 | *4-919-414-01 | COVER, TRANSFORMER | |
| 115 | 7-682-160-01 | SCREW +BVTT 4X6 (S) | |
| 116 | *4-919-401-11 | (US).....PANEL, BACK | |
| | *4-919-401-21 | (AEP)....PANEL, BACK | |
| | *4-919-401-31 | (AEP2)...PANEL, BACK | |
| | *4-919-401-41 | (E)......PANEL, BACK | |
| | *4-919-401-51 | (UK).....PANEL, BACK | |
| 117 | *4-915-481-01 | RETAINER, GUIDE BAR | |
| 118 | *4-919-425-01 | GUIDE (L) | |
| 119 | *4-915-468-01 | RETAINER, BAR, GUIDE | |
| 120 | *4-919-426-01 | BAR, GUIDE | |
| 121 | *4-919-473-01 | GUIDE (LF) | |
| 122 | 4-913-731-01 | PULLEY, ROADING | |
| 123 | *4-919-422-01 | BRACKET, RF | |
| 124 | 7-682-546-04 | SCREW +BVTT 3X5 (S) | |

| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 125 | 9-911-838-XX | PACKING, KNOB | |
| 126 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 SLIT | |
| 127 | 7-682-147-01 | SCREW +BVTT 3X6 (S) | |
| 128 | *4-919-480-01 | STOPPER | |
| 129 | 3-703-680-00 | (US)...LABEL, CAUTION, SUB, NEW, UL | |
| 130 | 4-921-015-01 | (US)...COVER, POWER | |
| 131 | 4-919-499-01 | (US,AEP,UK)...COVER, FILTER | |
| 132 | 9-911-840-XX | CUSHION | |
| 133 | *4-881-514-00 | BRACKET (C), PULLEY | |
| 134 | 4-818-403-00 | RIVET, NYLON | |
| 135 | *4-921-009-01 | WASHER | |
| 136 | *4-919-498-01 | REINFORCEMENT (BU) | |
| 137 | 7-682-550-04 | SCREW +B 3X12 | |
| 138 | *4-921-001-01 | SPACER (BU) | |
| 139 | 3-703-079-21 | (UK)...LABEL, SUB CAUTION | |
| 140 | 4-908-017-11 | (US)...COVER, CONDENSOR | |
| 141 | 7-685-134-19 | (E)....SCREW +P 2.6X8 TYPE 2 NON-SLIT | |
| 907 | *1-535-476-11 | TERMINAL | |
| 908 | 1-526-565-00 | (E3)...ADAPTOR, AC PLUG | |
| CNP1 ⚠ | 1-551-472-00 | (E).....CORD, POWER | |
| CNP1 ⚠ | 1-551-478-00 | (US)....CORD, POWER | |
| CNP1 ⚠ | 1-551-884-00 | (UK)....CORD, POWER | |
| CNP1 ⚠ | 1-555-795-00 | (AEP)...CORD, POWER, EULO PLUG | |
| M501 | X-4919-419-1 | MOTOR ASSY, LOADING | |
| S1 | 1-571-026-11 | SWITCH (ARM MOVED) | |
| T301 ⚠ | 1-448-842-11 | (US).......TRANSFORMER, POWER | |
| T301 ⚠ | 1-448-843-11 | (AEP,UK)...TRANSFORMER, POWER | |
| T301 ⚠ | 1-448-844-11 | (E)........TRANSFORMER, POWER | |

### 6-4. DISC TABLE


177
187
158
159
177
186
185
182
183
184
160
173
172
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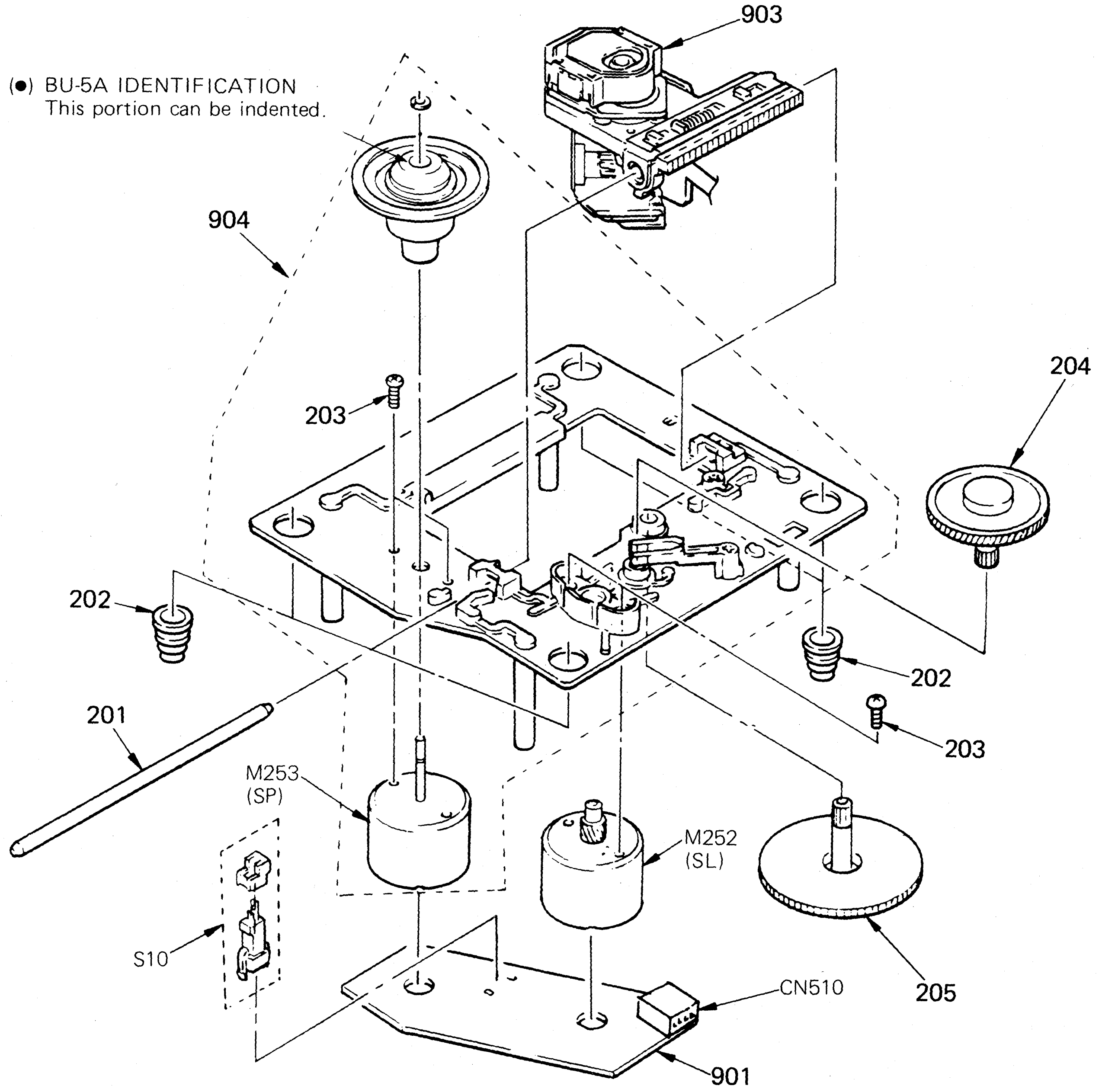
173
162
156
155
163
173
154
161
175
164
152
157
152
181
156
151
151
157
173
176
153
165
156
178
179
M502
152
167
166
152
151
177
151
173
902
(including ■A, ■B)
■A
171
168
■B
174
169
170

■A: **SW BOARD**
■B: **DISC SENSOR BOARD**

| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 151 | 4-919-419-01 | HOLDER, ROLLER | |
| 152 | *X-4919-418-1 | ROLLER (T) ASSY | |
| 153 | 4-919-421-01 | SPRING, TENSION | |
| 154 | 4-919-451-01 | SLIDER (ST) | |
| 155 | 4-919-416-01 | LEVER (ST) | |
| 156 | 3-701-439-21 | WASHER (t=0.5) | |
| 157 | 7-682-545-09 | SCREW +B 3X4 | |
| 158 | 7-685-132-19 | SCREW +P 2.6X5 TYPE2 NON-SLIT | |
| 159 | A-4681-008-A<br>A-4681-012-A | CHUCKING ASSY (BU-5)<br>CHUCKING ASSY (BU-5A) | Refer to page 32 (●) |
| 160 | 4-918-028-11 | STATION, ROTARY | |
| 161 | 3-701-443-21 | WASHER, 5 | |
| 162 | 4-919-418-01 | LEVER (S) | |
| 163 | 4-919-420-01 | SPRING | |
| 164 | 4-919-417-01 | SLIDER (S) | |
| 165 | 4-915-460-01 | GEAR (B) | |
| 166 | 4-910-429-01 | SPRING, TENSION (LIMITER GEAR) | |
| 167 | 4-910-401-01 | GEAR, LIMITER | |
| 168 | 4-919-450-01 | RACK | |
| 169 | 7-688-004-11 | W 4, MIDDLE | |
| 170 | 7-624-106-04 | STOP RING 3.0, TYPE -E | |
| 171 | *X-4919-412-1 | BASE ASSY, STATION | |
| 172 | 4-915-463-01 | GEAR (A) | |
| 173 | 3-558-708-21 | WASHER, STOPPER | |
| 175 | 7-621-775-08 | SCREW +B 2.6X3 | |
| 176 | 7-624-104-04 | STOP RING 2.0, TYPE -E | |
| 177 | 7-685-870-09 | SCREW +BVTT 3X5 (S) | |
| 178 | *4-921-008-01 | CUSHION | |
| 179 | *4-919-489-01 | CUSHION (PM) | |
| 181 | *4-921-019-01 | SPACER (ST) | |
| 182 | 7-682-148-01 | SCREW +BVTT 3X8 (S) | |
| 183 | 4-919-491-01 | REINFORCEMENT (S) | |
| 184 | *4-921-006-01 | SPRING | |
| 185 | 3-831-441-XX | CUSHION (B), CABINET | |
| 186 | *4-921-013-01 | NUT, PLATE | |
| 902 | *1-621-921-11 | PC BOARD, TRAY | |
| M502 | X-4919-420-1 | MOTOR ASSY, TURNTABLE | |

### 6-5. BASE UNIT (BU-5)
### (BU-5A)


903
(●) BU-5A IDENTIFICATION
This portion can be indented.
904
204
203
202
202
203
201
M253
(SP)
M252
(SL)
S10
CN510
205
901

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 201 | 4-917-565-01 | SHAFT, SLED | |
| 202 | 4-917-562-01 | INSULATOR | |
| 203 | 7-621-255-15 | SCREW +P 2X3 | |
| 204 | 4-917-567-01 | GEAR (M) | |
| 205 | 4-917-564-01 | GEAR (P), FLATNESS | |
| 901 | *1-620-097-11 | PC BOARD, SL/SP MOTOR | |
| 903 | ⚠ 8-848-062-01 | DEVICE, OPTICS (KSS-150A) | |
| 904 | X-4917-505-1<br>X-4917-523-1 | (BU-5) ... BASE ASSY<br>(BU-5A) .. BASE ASSY (●) | |
| CN510 | *1-564-720-31 | PIN, CONNECTOR (SMALL TYPE) 4P | |
| M252 | X-4917-504-1 | MOTOR ASSY (SLED) | |
| S10 | 1-570-822-11 | SWITCH, LEAF | |

# SECTION 7
# ELECTRICAL PARTS LIST

NOTE:

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC,
UPD...: μPD...

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| 901 | *1-620-097-11 | PC BOARD, SL/SP MOTOR | | | |
| 902 | *1-621-921-11 | PC BOARD, TRAY | | | |
| 903 ⚠ | .8-848-062-01 | DEVICE, OPTICS (KSS-150A) | | | |
| 904 | X-4917-505-1 | BASE ASSY (BU-5) | | | |
| | X-4917-523-1 | BASE ASSY (BU-5A) | | | |
| 905 | *A-4651-121-A | (US,AEP,UK)...MOUNTED PCB, MAIN | | | |
| | *A-4651-122-A | (E)..........MOUNTED PCB, MAIN | | | |
| 906 | *A-4655-041-A | MOUNTED PCB, INDICATION | | | |
| 907 | *1-535-476-11 | TERMINAL | | | |
| 908 | 1-526-565-00 | (E3)...ADAPTOR, AC PLUG | | | |
| C001 | 1-161-494-00 | CERAMIC | 0.022MF | | 25V |
| C002 | 1-161-741-00 | (AEP,UK)..CERAMIC | 0.001MF | 10% | 400V |
| C003 | 1-161-741-00 | (AEP,UK)..CERAMIC | 0.001MF | 10% | 400V |
| C004 | 1-161-741-00 | (AEP,UK)..CERAMIC | 0.001MF | 10% | 400V |
| C005 | 1-161-741-00 | (US)......CARAMIC | 0.001MF | 10% | 400V |
| C006 | 1-161-741-00 | (AEP,UK)..CERAMIC | 0.001MF | 10% | 400V |
| C101 | 1-136-478-11 | FILM | 470PF | 5% | 630V |
| C102 | 1-126-023-11 | ELECT | 100MF | 20% | 25V |
| C103 | 1-130-273-00 | FILM | 0.001MF | 5% | 100V |
| C104 | 1-136-230-00 | FILM | 0.0022MF | 5% | 100V |
| C105 | 1-136-230-00 | FILM | 0.0022MF | 5% | 100V |
| C106 | 1-136-153-00 | FILM | 0.01MF | 5% | 50V |
| C107 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V |
| C108 | 1-124-187-11 | ELECT | 22MF | 20% | 50V |
| C109 | 1-123-875-91 | ELECT | 10MF | 20% | 50V |
| C110 | 1-124-282-00 | ELECT | 22MF | 20% | 25V |
| C111 | 1-162-290-31 | CERAMIC | 470PF | 10% | 50V |
| C201 | 1-136-478-11 | FILM | 470PF | 5% | 630V |
| C202 | 1-126-023-11 | ELECT | 100MF | 20% | 25V |
| C203 | 1-130-273-00 | FILM | 0.001MF | 5% | 100V |
| C204 | 1-136-230-00 | FILM | 0.0022MF | 5% | 100V |
| C205 | 1-136-230-00 | FILM | 0.0022MF | 5% | 100V |
| C206 | 1-136-153-00 | FILM | 0.01MF | 5% | 50V |
| C207 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V |
| C208 | 1-124-187-11 | ELECT | 22MF | 20% | 50V |
| C209 | 1-123-875-91 | ELECT | 10MF | 20% | 50V |
| C210 | 1-124-282-00 | ELECT | 22MF | 20% | 25V |
| C211 | 1-162-290-31 | CERAMIC | 470PF | 10% | 50V |
| C301 | 1-124-898-11 | ELECT | 4700MF | 20% | 16V |
| C302 | 1-124-898-11 | ELECT | 4700MF | 20% | 16V |
| C303 | 1-124-791-11 | ELECT | 1MF | 20% | 50V |
| C304 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V |
| C305 | 1-124-998-41 | ELECT | 1000MF | 20% | 10V |
| C306 | 1-124-998-41 | ELECT | 1000MF | 20% | 10V |
| C307 | 1-124-122-11 | ELECT | 100MF | 20% | 50V |
| C308 | 1-124-572-11 | ELECT | 100MF | 20% | 63V |

ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| C309 | 1-124-478-11 | ELECT | 100MF | 20% | 25V |
| C310 | 1-161-494-00 | CERAMIC | 0.022MF | | 25V |
| C311 | 1-123-875-91 | ELECT | 10MF | 20% | 50V |
| C312 | 1-123-321-00 | ELECT | 220MF | 20% | 16V |
| C313 | 1-124-791-11 | ELECT | 1MF | 20% | 50V |
| C314 | 1-124-468-11 | ELECT | 100MF | 20% | 6.3V |
| C316 | 1-123-875-91 | ELECT | 10MF | 20% | 50V |
| C317 | 1-161-494-00 | CERAMIC | 0.022MF | | 25V |
| C351 | 1-125-367-11 | SUPER CONDENSOR 0.1F | | | 5.5V |
| C501 | 1-124-468-11 | ELECT | 100MF | 20% | 6.3V |
| C502 | 1-162-294-31 | CERAMIC | 0.001MF | 10% | 50V |
| C503 | 1-130-475-00 | MYLAR | 0.0022MF | 5% | 50V |
| C504 | 1-162-198-31 | CERAMIC | 8.2PF | 10% | 50V |
| C505 | 1-124-468-11 | ELECT | 100MF | 20% | 6.3V |
| C506 | 1-136-159-00 | FILM | 0.033MF | 5% | 50V |
| C507 | 1-124-468-11 | ELECT | 100MF | 20% | 6.3V |
| C508 | 1-136-159-00 | FILM | 0.033MF | 5% | 50V |
| C509 | 1-136-153-00 | FILM | 0.01MF | 5% | 50V |
| C510 | 1-124-468-11 | ELECT | 100MF | 20% | 6.3V |
| C511 | 1-130-475-00 | MYLAR | 0.0022MF | 5% | 50V |
| C512 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C513 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V |
| C514 | 1-124-905-11 | ELECT | 3.3MF | 20% | 50V |
| C515 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C518 | 1-123-875-91 | ELECT | 10MF | 20% | 50V |
| C519 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C521 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V |
| C522 | 1-110-203-00 | MYLAR | 0.0047MF | 5% | 50V |
| C523 | 1-124-468-11 | ELECT | 100MF | 20% | 6.3V |
| C524 | 1-162-294-31 | CERAMIC | 0.001MF | 10% | 50V |
| C525 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C526 | 1-136-159-00 | FILM | 0.033MF | 5% | 50V |
| C527 | 1-124-468-11 | ELECT | 100MF | 20% | 6.3V |
| C528 | 1-124-468-11 | ELECT | 100MF | 20% | 6.3V |
| C529 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C530 | 1-136-153-00 | FILM | 0.01MF | 5% | 50V |
| C531 | 1-124-791-11 | ELECT | 1MF | 20% | 50V |
| C533 | 1-124-468-11 | ELECT | 100MF | 20% | 6.3V |
| C534 | 1-162-207-31 | CERAMIC | 22PF | 5% | 50V |
| C535 | 1-162-207-31 | CERAMIC | 22PF | 5% | 50V |
| C537 | 1-124-468-11 | ELECT | 100MF | 20% | 6.3V |
| C539 | 1-124-791-11 | ELECT | 1MF | 20% | 50V |
| C550 | 1-162-294-31 | CERAMIC | 0.001MF | 10% | 50V |
| C551 | 1-124-445-00 | ELECT | 100MF | 20% | 16V |
| C552 | 1-124-445-00 | ELECT | 100MF | 20% | 16V |

ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| C553 | 1-124-791-11 | ELECT | 1MF | 20% | 50V |
| C554 | 1-161-494-00 | CERAMIC | 0.022MF | | 25V |
| C555 | 1-162-294-31 | CERAMIC | 0.001MF | 10% | 50V |
| C556 | 1-162-294-31 | CERAMIC | 0.001MF | 10% | 50V |
| C557 | 1-162-294-31 | CERAMIC | 0.001MF | 10% | 50V |
| C559 | 1-161-494-00 | CERAMIC | 0.022MF | 30% | 25V |
| C560 | 1-124-908-11 | ELECT | 22MF | 20% | 25V |
| C561 | 1-123-875-91 | ELECT | 10MF | 20% | 50V |
| C562 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V |
| C563 | 1-161-494-00 | CERAMIC | 0.022MF | 30% | 25V |
| C564 | 1-161-494-00 | CERAMIC | 0.022MF | | 25V |
| C565 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C566 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C567 | 1-161-494-00 | CERAMIC | 0.022MF | | 25V |
| C568 | 1-161-377-00 | CERAMIC | 0.0047MF | 30% | 16V |
| C569 | 1-161-494-00 | CERAMIC | 0.022MF | | 25V |
| C571 | 1-161-494-00 | CERAMIC | 0.022MF | | 25V |
| C574 | 1-124-270-11 | CAP, ELECT (NONPOLAR) 0.47MF | | | |
| C701 | 1-162-294-31 | CERAMIC | 0.001MF | 10% | 50V |
| C702 | 1-161-494-00 | CERAMIC | 0.022MF | | 25V |
| C703 | 1-161-494-00 | CERAMIC | 0.022MF | | 25V |
| C704 | 1-161-494-00 | CERAMIC | 0.022MF | | 25V |
| C901 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V |
| C1001 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C1002 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V |
| C1003 | 1-124-791-11 | ELECT | 1MF | 20% | 50V |
| C1004 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C1005 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V |
| C1006 | 1-123-332-00 | ELECT | 47MF | 20% | 16V |
| C1007 | 1-124-791-11 | ELECT | 1MF | 20% | 50V |
| C1008 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C1009 | 1-124-908-11 | ELECT | 22MF | 20% | 25V |
| C1010 | 1-124-791-11 | ELECT | 1MF | 20% | 50V |
| C1011 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V |
| CN301 | *1-564-508-11 | PLUG, CONNECTOR 5P | | | |
| CN302 | *1-564-339-51 | PIN, CONNECTOR 5P | | | |
| CN303 | *1-564-340-51 | PIN, CONNECTOR 6P | | | |
| CN304 | *1-564-506-11 | PLUG, CONNECTOR 3P | | | |
| CN501 | *1-506-503-11 | PIN, CONNECTOR 9P | | | |
| CN503 | *1-564-509-11 | PLUG, CONNECTOR 6P | | | |
| CN504 | *1-564-510-11 | PLUG, CONNECTOR 7P | | | |
| CN505 | *1-564-507-11 | PLUG, CONNECTOR 4P | | | |
| CN506 | *1-564-339-41 | PIN, CONNECTOR 5P | | | |
| CN507 | *1-564-339-21 | PIN, CONNECTOR 5P | | | |
| CN508 | *1-564-338-21 | PIN, CONNECTOR 4P | | | |
| CN509 | *1-564-337-21 | PIN, CONNECTOR 3P | | | |
| CN510 | *1-564-720-31 | PIN, CONNECTOR (SMALL TYPE) 4P | | | |
| CN511 | *1-564-724-11 | PIN, CONNECTOR (SMALL TYPE) 8P | | | |
| CN512 | *1-564-338-41 | PIN, CONNECTOR 4P | | | |
| CN513 | *1-564-720-11 | PIN, CONNECTOR (SMALL TYPE) 4P | | | |
| CN514 | *1-564-338-31 | PIN, CONNECTOR 4P | | | |
| CN515 | *1-564-509-11 | PLUG, CONNECTOR 6P | | | |
| CN516 | *1-564-340-21 | PIN, CONNECTOR 6P | | | |
| CN519 | *1-564-338-51 | PIN, CONNECTOR 4P | | | |
| CN520 | *1-564-338-00 | PIN, CONNECTOR 4P | | | |
| CN521 | *1-564-336-21 | PIN, CONNECTOR 2P | | | |
| CN522 | *1-564-336-61 | PIN, CONNECTOR 2P | | | |
| CN524 | *1-564-336-00 | PIN, CONNECTOR 2P | | | |
| CN525 | *1-564-720-21 | PIN, CONNECTOR (SMALL TYPE) 4P | | | |

ELECTRICAL PARTS

| Ref.No. | Part No. | Description |
|---|---|---|
| CN701 | 1-564-980-11 | PIN, CONNECTOR 4P (CONTROL S IN) |
| CN702 | 1-564-980-11 | PIN, CONNECTOR 4P (CONTROL S OUT) |
| CN704 | *1-564-337-00 | PIN, CONNECTOR 3P |
| CN705 | *1-564-337-21 | PIN, CONNECTOR 3P |
| ⚠CNJ301 | .1-526-882-00 | (US)...OUTLET, AC (AC OUTLET) |
| CNP1 ⚠ | .1-551-472-00 | (E).....CORD, POWER |
| CNP1 ⚠ | .1-551-478-00 | (US)....CORD, POWER |
| CNP1 ⚠ | .1-551-884-00 | (UK)....CORD, POWER |
| CNP1 ⚠ | .1-555-795-00 | (AEP)....CORD, POWER, EULO PLUG |
| D301 | 8-719-200-77 | DIODE 10E2N |
| D302 | 8-719-200-77 | DIODE 10E2N |
| D303 | 8-719-200-77 | DIODE 10E2N |
| D304 | 8-719-200-77 | DIODE 10E2N |
| D305 | 8-719-200-77 | DIODE 10E2N |
| D306 | 8-719-200-77 | DIODE 10E2N |
| D307 | 8-719-200-77 | DIODE 10E2N |
| D308 | 8-719-933-36 | ZENER DIODE HZS6B1L |
| D309 | 8-719-940-76 | DIODE 1SS132 |
| D310 | 8-719-200-77 | DIODE 10E2N |
| D311 | 8-719-940-76 | DIODE 1SS132 |
| D312 | 8-719-200-77 | DIODE 10E2N |
| D313 | 8-719-200-77 | DIODE 10E2N |
| D314 | 8-719-940-76 | DIODE 1SS132 |
| D315 | 8-719-933-36 | ZENER DIODE HZS6B1L |
| D316 | 8-719-940-76 | DIODE 1SS132 |
| D317 | 8-719-940-76 | DIODE 1SS132 |
| D318 | 8-719-940-76 | DIODE 1SS132 |
| D319 | 8-719-940-76 | DIODE 1SS132 |
| D320 | 8-719-940-76 | DIODE 1SS132 |
| D321 | 8-719-940-76 | DIODE 1SS132 |
| D322 | 8-719-940-76 | DIODE 1SS132 |
| D701 | 8-719-907-98 | LED GL-5PG22 |
| D702 | 8-719-906-44 | LED GL-5HY22 |
| D703 | 8-719-906-44 | LED GL-5HY22 |
| D704 | 8-719-907-98 | LED GL-5PG22 |
| D705 | 8-719-945-54 | LED VRPG5341K |
| D706 | 8-719-945-54 | LED VRPG5341K |
| D707 | 8-719-945-54 | LED VRPG5341K |
| D708 | 8-719-945-54 | LED VRPG5341K |
| D709 | 8-719-945-54 | LED VRPG5341K |
| D710 | 8-719-940-76 | DIODE 1SS132 |
| D711 | 8-719-940-76 | DIODE 1SS132 |
| D712 | 8-719-940-76 | DIODE 1SS132 |
| D713 | 8-719-940-76 | DIODE 1SS132 |
| D714 | 8-719-940-76 | DIODE 1SS132 |
| D715 | 8-719-940-76 | DIODE 1SS132 |
| D716 | 8-719-940-76 | DIODE 1SS132 |
| D717 | 8-719-940-76 | DIODE 1SS132 |
| D718 | 8-719-940-76 | DIODE 1SS132 |
| D719 | 8-719-940-76 | DIODE 1SS132 |
| D901 | 8-719-940-76 | DIODE 1SS132 |
| D902 | 8-719-940-76 | DIODE 1SS132 |
| D1001 | 8-719-940-76 | DIODE 1SS132 |
| D1002 | 8-719-940-76 | DIODE 1SS132 |
| D1003 | 8-719-940-76 | DIODE 1SS132 |
| D1004 | 8-719-940-76 | DIODE 1SS132 |
| D1005 | 8-719-940-76 | DIODE 1SS132 |

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

| Ref.No. | Part No. | Description |
|---|---|---|
| D1006 | 8-719-940-76 | DIODE 1SS132 |
| D1007 | 8-719-940-76 | DIODE 1SS132 |
| D1008 | 8-719-940-76 | DIODE 1SS132 |
| D1009 | 8-719-940-76 | DIODE 1SS132 |
| D1010 | 8-719-940-76 | DIODE 1SS132 |
| D1011 | 8-719-940-76 | DIODE 1SS132 |
| D1012 | 8-719-940-76 | DIODE 1SS132 |
| D1013 | 8-719-940-76 | DIODE 1SS132 |
| D1014 | 8-719-940-76 | DIODE 1SS132 |
| D1015 | 8-719-940-76 | DIODE 1SS132 |
| FL701 | 1-519-304-00 | INDICATOR TUBE, FLUORESCENT |
| IC301 | 8-759-604-03 | IC M5290P |
| IC302 | 8-759-604-00 | IC M51565P |
| IC303 | 8-759-937-95 | IC PCM56P-S |
| IC304 | 8-759-701-12 | IC CXA4559P |
| IC501 | 8-752-322-05 | IC CXD1135Q |
| IC502 | 8-752-031-61 | IC CXA1082AQ |
| IC503 | 8-759-802-74 | IC LC3516AML-15 |
| IC504 | 8-752-030-93 | IC CXA1081M |
| IC505 | 8-759-940-62 | IC MSM6404A-180RS |
| IC506 | 8-759-303-90 | IC STA341M |
| IC507 | 8-759-202-01 | IC TA7256P |
| IC508 | 8-759-803-41 | IC LC4969 |
| IC509 | 8-759-601-45 | IC M4069UBP |
| IC701 | 8-759-604-74 | IC M50941-411SP |
| IC702 | 8-759-803-33 | IC LC6528C-3175 |
| IC703 | 8-741-138-70 | IC BX-1387 |
| IC1001 | 8-759-240-75 | IC TC4075BP |
| IC1002 | 8-759-240-69 | IC TC4069UBP |
| IC1003 | 8-759-133-90 | IC UPC339C |
| IC1004 | 8-759-240-12 | IC TC4012BP |
| IC1005 | 8-759-240-24 | IC TC4024BP |
| IC1006 | 8-759-240-11 | IC TC4011BP |
| IC1007 | 8-759-240-81 | IC TC4081BP |
| IC1008 | 8-759-240-69 | IC TC4069UBP |
| IC1009 | 8-759-240-11 | IC TC4011BP |
| J301 | 1-563-485-21 | JACK, LARGE TYPE (HEADPHONES) |
| J302 | *1-562-999-21 | JACK, PIN 2P (LINE OUT) |
| L501 | 1-408-117-00 | MICRO INDUCTOR 10UH |
| L701 | 1-407-173-XX | MICRO INDUCTOR 220UH |
| LF301 | 1-421-915-11 | COIL, LINE FILTER |
| M252 | X-4917-504-1 | MOTOR ASSY (SLED) |
| M501 | X-4919-419-1 | MOTOR ASSY (LOADING) |
| M502 | X-4919-420-1 | MOTOR ASSY (TURNTABLE) |
| PM301 | 1-454-438-11 | SOLENOID, PLUNGER |
| PS301⚠. | 1-532-637-00 | LINK, IC |
| PS302⚠. | 1-532-637-00 | LINK, IC |
| PS303⚠. | 1-532-605-00 | LINK, IC |
| PS304⚠. | 1-532-605-00 | LINK, IC |
| PS305⚠. | 1-532-637-00 | LINK, IC |
| PS306⚠. | 1-532-686-00 | LINK, IC |
| PS307⚠. | 1-532-686-00 | LINK, IC |
| Q101 | 8-729-107-77 | TRANSISTOR 2SC3623-L |
| Q102 | 8-729-107-77 | TRANSISTOR 2SC3623-L |
| Q201 | 8-729-107-77 | TRANSISTOR 2SC3623-L |
| Q202 | 8-729-107-77 | TRANSISTOR 2SC3623-L |
| Q301 | 8-729-111-67 | TRANSISTOR 2SB1094-L |
| Q302 | 8-729-107-25 | TRANSISTOR 2SD1585-K |

ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| Q303 | 8-729-173-13 | TRANSISTOR 2SB731 | | | |
| Q304 | 8-729-117-54 | TRANSISTOR 2SA1175 | | | |
| Q305 | 8-729-806-28 | TRANSISTOR 2SC3402 | | | |
| Q306 | 8-729-806-16 | TRANSISTOR 2SA1346 | | | |
| Q307 | 8-729-180-93 | TRANSISTOR 2SB1013 | | | |
| Q501 | 8-729-801-83 | TRANSISTOR 2SB1013 | | | |
| Q502 | 8-729-806-38 | TRANSISTOR 2SC3399 | | | |
| Q503 | 8-729-806-38 | TRANSISTOR 2SC3399 | | | |
| Q508 | 8-729-801-93 | TRANSISTOR 2SD1387 | | | |
| Q510 | 8-729-806-16 | TRANSISTOR 2SA1346 | | | |
| Q511 | 8-729-801-83 | TRANSISTOR 2SB1013 | | | |
| Q513 | 8-729-177-43 | TRANSISTOR 2SD774 | | | |
| Q514 | 8-729-801-93 | TRANSISTOR 2SD1387 | | | |
| Q515 | 8-729-117-54 | TRANSISTOR 2SA1175 | | | |
| Q516 | 8-729-117-54 | TRANSISTOR 2SA1175 | | | |
| Q517 | 8-729-806-28 | TRANSISTOR 2SC3402 | | | |
| Q518 | 8-719-906-43 | TRANSISTOR GP-1S03 | | | |
| Q519 | 8-719-939-88 | TRANSISTOR RPR-359F-B | | | |
| Q520 | 8-719-939-88 | TRANSISTOR RPR-359F-B | | | |
| Q521 | 8-729-806-28 | TRANSISTOR 2SC3402 | | | |
| Q701 | 9-986-159-01 | TRANSISTOR 2SA1348 | | | |
| Q702 | 9-986-159-01 | TRANSISTOR 2SA1348 | | | |
| Q703 | 8-729-806-34 | TRANSISTOR 2SC3400 | | | |
| Q704 | 8-729-806-34 | TRANSISTOR 2SC3400 | | | |
| Q705 | 8-729-806-34 | TRANSISTOR 2SC3400 | | | |
| Q706 | 8-729-806-34 | TRANSISTOR 2SC3400 | | | |
| Q707 | 8-729-806-34 | TRANSISTOR 2SC3400 | | | |
| Q708 | 8-729-806-34 | TRANSISTOR 2SC3400 | | | |
| Q709 | 9-986-159-01 | TRANSISTOR 2SA1348 | | | |
| Q901 | 8-729-806-28 | TRANSISTOR 2SC3402 | | | |
| Q1001 | 8-729-806-28 | TRANSISTOR 2SC3402 | | | |
| Q1002 | 8-729-806-28 | TRANSISTOR 2SC3402 | | | |
| Q1003 | 8-729-900-65 | TRANSISTOR DTE144ES | | | |
| Q1004 | 8-729-806-28 | TRANSISTOR 2SC3402 | | | |
| Q1005 | 8-729-900-61 | TRANSISTOR DTA114ES | | | |
| R101 | 1-215-442-00 | CARBON | 7.5K | 5% | 1/6W |
| R102 | 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W |
| R103 | 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W |
| R104 | 1-247-723-11 | CARBON | 6.8K | 5% | 1/4W |
| R105 | 1-247-152-00 | CARBON | 7.5K | 5% | 1/4W |
| R106 | 1-249-933-11 | CARBON | 2.7K | 1% | 1/4W |
| R107 | 1-249-934-11 | CARBON | 3K | 1% | 1/4W |
| R108 | 1-249-933-11 | CARBON | 2.7K | 1% | 1/4W |
| R109 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |
| R110 | 1-247-714-11 | CARBON | 1.2K | 5% | 1/4W |
| R111 | 1-247-714-11 | CARBON | 1.2K | 5% | 1/4W |
| R112 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R115 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W |
| R116 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R117 | 1-247-849-00 | CARBON | 5.6K | 5% | 1/6W |
| R118 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W |
| R119 | 1-247-704-11 | CARBON | 220 | 5% | 1/4W |
| R120 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R121 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R201 | 1-215-442-00 | CARBON | 7.5K | 5% | 1/6W |
| R202 | 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W |

The components identified
by shading and mark ⚠ are
critical for safety.
Replace only with part
number specified.

ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| R203 | 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W |
| R204 | 1-247-723-11 | CARBON | 6.8K | 5% | 1/4W |
| R205 | 1-247-152-00 | CARBON | 7.5K | 5% | 1/4W |
| R206 | 1-249-933-11 | CARBON | 2.7K | 1% | 1/4W |
| R207 | 1-249-934-11 | CARBON | 3K | 1% | 1/4W |
| R208 | 1-249-933-11 | CARBON | 2.7K | 1% | 1/4W |
| R209 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |
| R210 | 1-247-714-11 | CARBON | 1.2K | 5% | 1/4W |
| R211 | 1-247-714-11 | CARBON | 1.2K | 5% | 1/4W |
| R212 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R215 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W |
| R216 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R217 | 1-247-849-00 | CARBON | 5.6K | 5% | 1/6W |
| R218 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W |
| R219 | 1-247-704-11 | CARBON | 220 | 5% | 1/4W |
| R220 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R221 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R301 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W |
| R302 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W |
| R303 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W |
| R304 | 1-249-415-11 | CARBON | 680 | 5% | 1/6W |
| R305 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/6W |
| R306 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W |
| R307 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |
| R308 | 1-247-752-11 | CARBON | 1K | 5% | 1/2W |
| R309 | 1-247-704-11 | CARBON | 220 | 5% | 1/4W |
| R310 | 1-247-739-11 | CARBON | 100 | 5% | 1/2W |
| R311 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R501 | 1-214-092-00 | METAL | 22 | 1% | 1/4W |
| R502 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/6W |
| R503 | 1-215-450-00 | CARBON | 16K | 5% | 1/6W |
| R504 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W |
| R505 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W |
| R506 | 1-249-405-11 | CARBON | 100 | 5% | 1/6W |
| R507 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/6W |
| R508 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/6W |
| R509 | 1-215-437-00 | METAL | 4.7K | 1% | 1/6W |
| R510 | 1-215-437-00 | METAL | 4.7K | 1% | 1/6W |
| R511 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W |
| R512 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W |
| R513 | 1-249-447-11 | CARBON | 1 | 5% | 1/4W |
| R514 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |
| R515 | 1-249-385-11 | CARBON | 2.2 | 5% | 1/6W |
| R516 | 1-247-883-00 | CARBON | 150K | 5% | 1/6W |
| R517 | 1-249-385-11 | CARBON | 2.2 | 5% | 1/6W |
| R518 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |
| R519 | 1-215-479-00 | CARBON | 270K | 5% | 1/6W |
| R520 | 1-249-435-11 | CARBON | 33K | 5% | 1/6W |
| R521 | 1-249-385-11 | CARBON | 2.2 | 5% | 1/6W |
| R522 | 1-249-424-11 | CARBON | 3.9K | 5% | 1/6W |
| R524 | 1-215-486-00 | CARBON | 510K | 5% | 1/6W |
| R525 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |
| R526 | 1-215-452-00 | CARBON | 20K | 5% | 1/6W |
| R527 | 1-215-493-00 | CARBON | 1M | 5% | 1/6W |
| R528 | 1-215-434-00 | METAL | 3.6K | 1% | 1/6W |
| R529 | 1-247-881-00 | CARBON | 120K | 5% | 1/6W |
| R530 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |

ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | | |
|---|---|---|---|---|---|---|
| R531 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R532 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R533 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W | |
| R534 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R535 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W | |
| R549 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/6W | |
| R550 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | |
| R551 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W | |
| R552 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W | |
| R553 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R554 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R555 | 1-249-447-11 | CARBON | 1 | 5% | 1/4W | |
| R556 | 1-249-434-11 | CARBON | 27K | 5% | 1/6W | |
| R557 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R559 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W | |
| R560 | 1-249-424-11 | CARBON | 3.9K | 5% | 1/6W | |
| R561 | 1-247-849-00 | CARBON | 5.6K | 5% | 1/6W | |
| R562 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W | |
| R563 | 1-246-457-00 | CARBON | 220 | 5% | 1/4W | |
| R564 | 1-246-455-00 | CARBON | 180 | 5% | 1/4W | |
| R565 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R566 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R567 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/6W | |
| R568 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R570 | 1-215-469-00 | METAL | 100K | 1% | 1/6W | |
| R571 | 1-215-469-00 | METAL | 100K | 1% | 1/6W | |
| R572 | 1-215-486-00 | CARBON | 510K | 5% | 1/6W | |
| R573 | 1-249-405-11 | CARBON | 100 | 5% | 1/6W | |
| R574 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | |
| R575 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W | |
| R576 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/6W | |
| R577 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R578 | 1-247-849-00 | CARBON | 5.6K | 5% | 1/6W | |
| R579 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/6W | |
| R580 | 1-247-839-00 | CARBON | 2.2K | 5% | 1/6W | |
| R581 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | |
| R582 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | |
| R584 | 1-215-396-00 | CARBON | 91 | 5% | 1/6W | |
| R585 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R586 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R587 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R588 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R589⚠. | 1-215-881-11 | METAL OXIDE | 15 | 5% | 2W | F |
| R590 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W | |
| R591 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | |
| R592 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W | |
| R593 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W | |
| R594 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W | |
| R595 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W | |
| R596 | 1-249-393-11 | CARBON | 10 | 5% | 1/6W | |
| R597 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | |
| R598 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | |
| R601 | 1-249-405-11 | CARBON | 100 | 5% | 1/6W | |
| R602 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | |
| R701 | 1-249-404-00 | CARBON | 82 | 5% | 1/6W | |
| R702 | 1-249-409-11 | CARBON | 220 | 5% | 1/6W | |
| R703 | 1-249-409-11 | CARBON | 220 | 5% | 1/6W | |

The components identified
by shading and mark ⚠ are
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## ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| R704 | 1-249-404-00 | CARBON | 82 | 5% | 1/6W |
| R710 | 1-215-493-00 | CARBON | 1M | 5% | 1/6W |
| R711 | 1-247-849-00 | CARBON | 5.6K | 5% | 1/6W |
| R712 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/6W |
| R713 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W |
| R714 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W |
| R715 | 1-249-431-11 | CARBON | 15K | 5% | 1/6W |
| R716 | 1-247-849-00 | CARBON | 5.6K | 5% | 1/6W |
| R717 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/6W |
| R718 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W |
| R719 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W |
| R720 | 1-249-431-11 | CARBON | 15K | 5% | 1/6W |
| R721 | 1-247-849-00 | CARBON | 5.6K | 5% | 1/6W |
| R722 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/6W |
| R723 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W |
| R724 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W |
| R725 | 1-249-431-11 | CARBON | 15K | 5% | 1/6W |
| R726 | 1-247-849-00 | CARBON | 5.6K | 5% | 1/6W |
| R727 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/6W |
| R728 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W |
| R729 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W |
| R730 | 1-215-452-00 | CARBON | 20K | 5% | 1/6W |
| R731 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R732 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W |
| R733 | 1-215-452-00 | CARBON | 20K | 5% | 1/6W |
| R734 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R735 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W |
| R736 | 1-215-452-00 | CARBON | 20K | 5% | 1/6W |
| R739 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W |
| R740 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W |
| R741 | 1-249-393-11 | CARBON | 10 | 5% | 1/6W |
| R742 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R743 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W |
| R744 | 1-215-452-00 | CARBON | 20K | 5% | 1/6W |
| R745 | 1-215-452-00 | CARBON | 20K | 5% | 1/6W |
| R746 | 1-249-403-11 | CARBON | 68 | 5% | 1/6W |
| R747 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W |
| R748 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W |
| R749 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W |
| R750 | 1-215-493-00 | CARBON | 1M | 5% | 1/6W |
| R1001 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |
| R1002 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |
| R1003 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R1004 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R1005 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R1006 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W |
| R1007 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |
| R1008 | 1-249-413-11 | CARBON | 470 | 5% | 1/6W |
| R1009 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W |
| R1010 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/6W |
| R1011 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W |
| R1012 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W |
| R1013 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R1014 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |

## ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| R1015 | 1-247-887-00 | CARBON | 220K | 5% | 1/6W |
| R1016 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R1017 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |
| R1018 | 1-247-887-00 | CARBON | 220K | 5% | 1/6W |
| R1019 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |
| R1020 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |
| R1021 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W |
| R1022 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |
| R1023 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W |
| RV301 | 1-230-997-21 | RES, VAR, CARBON 20K/20K | | | |
| RV501 | 1-237-194-11 | RES, ADJ, CARBON 20K | | | |
| RV502 | 1-228-993-00 | RES, ADJ, METAL GLAZE 4.7K | | | |
| RV503 | 1-237-194-11 | RES, ADJ, CARBON 20K | | | |
| RV504 | 1-237-194-11 | RES, ADJ, CARBON 20K | | | |
| RV505 | 1-228-990-00 | RES, ADJ, METAL GLAZE 1K | | | |
| RV506 | 1-237-195-11 | RES, ADJ, CARBON 50K | | | |
| RV507 | 1-237-195-11 | RES, ADJ, CARBON 50K | | | |
| S1 | 1-571-026-11 | SWITCH (ARM MOVED) | | | |
| S002 | 1-554-075-00 | SWITCH, SLIDE (TIMER) | | | |
| S301 | 1-570-103-21 | SWITCH, PUSH (1 KEY)(POWER) | | | |
| S701 | 1-570-876-11 | SWITCH, KEY BOARD (1) | | | |
| S702 | 1-570-876-11 | SWITCH, KEY BOARD (2) | | | |
| S703 | 1-570-876-11 | SWITCH, KEY BOARD (3) | | | |
| S704 | 1-570-876-11 | SWITCH, KEY BOARD (4) | | | |
| S705 | 1-570-876-11 | SWITCH, KEY BOARD (5) | | | |
| S706 | 1-570-876-11 | SWITCH, KEY BOARD ( ■ ) | | | |
| S707 | 1-570-876-11 | SWITCH, KEY BOARD ( ❚❚ ) | | | |
| S708 | 1-570-876-11 | SWITCH, KEY BOARD ( ◀◀ ) | | | |
| S709 | 1-570-876-11 | SWITCH, KEY BOARD ( ▶▶ ) | | | |
| S710 | 1-570-876-11 | SWITCH, KEY BOARD ( ▷ ) | | | |
| S711 | 1-570-876-11 | SWITCH, KEY BOARD ( \|◁◁ ) | | | |
| S712 | 1-570-876-11 | SWITCH, KEY BOARD ( ▷▷\| ) | | | |
| S713 | 1-570-876-11 | SWITCH, KEY BOARD (CHECK) | | | |
| S714 | 1-570-876-11 | SWITCH, KEY BOARD (CLEAR) | | | |
| S715 | 1-570-876-11 | SWITCH, KEY BOARD (PROGRAM) | | | |
| S716 | 1-570-876-11 | SWITCH, KEY BOARD (SHUFFLE) | | | |
| S717 | 1-570-876-11 | SWITCH, KEY BOARD (REPEAT) | | | |
| S718 | 1-570-876-11 | SWITCH, KEY BOARD (TIME) | | | |
| S719 | 1-570-876-11 | SWITCH, KEY BOARD (OPEN/CLOSE) | | | |
| S720 | 1-570-876-11 | SWITCH, KEY BOARD (DISK SKIP) | | | |
| S721 | 1-571-027-11 | SWITCH, PUSH (3 KEY) | | | |
| T301 | ⚠.1-448-842-11 | (US)......TRANSFORMER, POWER | | | |
| T301 | ⚠.1-448-843-11 | (AEP,UK)...TRANSFORMER, POWER | | | |
| T301 | ⚠.1-448-844-11 | (E)........TRANSFORMER, POWER | | | |
| TP1 | *1-564-507-11 | PLUG, CONNECTOR 4P | | | |
| VS1 | ⚠.1-570-307-11 | (E)...VOLTAGE, SELECTOR | | | |
| X501 | 1-567-692-21 | VIBRATOR, CRYSTAL (8.4672MHz) | | | |
| X701 | 1-567-819-21 | VIBRATOR, CERAMIC (4.00MHz) | | | |
| X702 | 1-567-818-21 | VIBRATOR, CERAMIC (3.58MHz) | | | |

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

ACCESSORY & PACKING MATERIAL

| Part No. | Description |
|---|---|
| 1-463-796-11 | REMOTE COMMANDER (RM-D5) |
| 1-558-787-11 | (AEP,UK,E)...CORD, CONNECTION |
| 3-701-630-00 | (AEP,UK,E)...BAG, POLYETHYLENE |
| 3-703-713-41 | STICKER, SONY SYMBOL (10) |
| 3-764-765-11 | INSTRUCTION (TRANSPORT SCREW) |
| 3-765-966-11 | (AEP,UK,E)...MANUAL, INSTRUCTION |
| 3-765-966-41 | (AEP)........MANUAL, INSTRUCTION |
| *3-795-629-11 | (AEP)...INSTRUCTION |
| 4-914-822-01 | SHEET, PROTECTION, MAIN |
| 4-919-467-11 | SHEET, THROW |
| 4-919-470-11 | (AEP,UK,E)...INDIVIDUAL CARTON |
| 4-919-471-01 | (AEP,UK,E)...CUSHION (LEFT) |
| 4-919-472-01 | (AEP,UK,E)...CUSHION (RIGHT) |
| 4-919-481-01 | PROTECTOR |
| *4-919-488-01 | LABEL, CAUTION |
| X-4919-416-1 | (AEP,UK,E)...HOLDER ASSY, CD BOOKLET |

# SECTION 8

# TROUBLESHOOTING

| TROUBLE | CAUSES | REMEDY |
|---|---|---|
| No audio from one or both channels | Incorrect operation of the amplifier | Operate correctly. |
| | Loose connection | Connect the cords firmly. |
| Play does not begin. | No disc in the disc compartment | Put disc(s) in the compartment. |
| | The ❚❚ button has been pressed. | Press the ❚❚ button again or press the ▶ button to release pause. |
| | No disc in the front position with the disc compartment open (SINGLE play) | Rotate the disc compartment so that the disc comes in front. |
| | Moisture condensation | Leave the player turned on for about an hour. |
| | The disc is set upside down. | Set the disc with the label side up. |
| | The disc is incorrectly set. | Set the disc correctly. |
| | The disc is extremely dirty. | Clean the disc. |
| Discs cannot be played continuously. | The SINGLE button is depressed. | Depress the MULTI button. |
| Play stops at each end of selections. | The AUTO PAUSE switch is depressed. | Depress the AUTO PAUSE switch again to release the auto pause function. |
| Play does not begin at time set by timer. (The units power is turned on.) | The AUTO PAUSE switch has been pressed. | Release auto pause before setting the timer. |
| Remote commander does not operate the unit. | The batteries are exhausted. | Replace both batteries. |
| | The remote commander is not pointed at the remote sensor. | Point the remote commander to the remote sensor. |
| | There is an obstacle between the remote commander and the unit. | Remove the obstacle. |
| Any operation is not possible. | The internal control program may not run correctly. | Turn OFF the power, and turn ON the power again. |

**Sony Corporation**
**Audio Group**

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